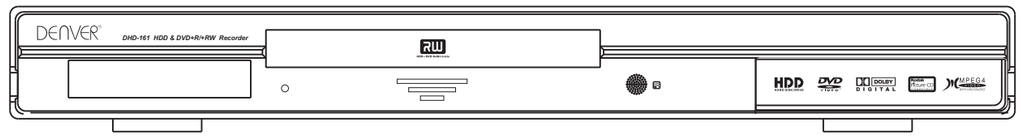
DENVER®

# DHD-161
# HDD+DVD RECORDER




DOLBY DIGITAL

Manufactured under license from Dolby Laboratories."Dolby", "Pro Logic"and the double-D symbol are trademarks of Dolby Laboratories.Confidential Unpublished Works. ©1992-1997 Dolby Laboratories,Inc.all rights reserved.

ALL RIGHTS RESERVED
COPY RIGHT DENVER ELECTRONICS A/S

CE

www.denver-electronics.com

**Instructions on environment protection**

DENVER ELECTRONICS

Do not dispose of this product in the usual household garbage at the end of its lifecycle; hand it over at a collection point for the recycling of electrical and electronic appliances. The symbol on the product, the instructions for use or the packing will inform about the methods for disposal.
The materials are recyclable as mentioned in this marking. By recycling, material recycling or other forms of re-utilization of old appliances, you are making an important contribution to protect our environment.
Please inquire at the community administration for the authorized disposal location.

RW

HDD+DVD ReWritable

# Technical Specifications

## Technical Specifications

| | | |
|---|---|---|
| Audio Specifications | Output | Audio level:1.0~2.0 Vrms (10k ohm load)<br>Frequency response: 4Hz~44KHz (2dB)<br>S /N ratio ⩾90dB<br>Audio distortion+noise ⩽-65dB(1KHz) |
| | Input | Audio Level ⩽2.0 Vrms (10k ohm Load) |
| General specifications | | HDD:160GB<br>Power supply<br>AC230V 50Hz<br>Power consumption: ⩽40W<br>Standby power consumption: ⩽3W<br>Size: 430mmX48mmX308mm<br>Weight<br>Net: 4.65kg<br>Gross: 5.3kg |
| Working humidity | | Relative humidity: 15~75%(without water condensation) |



# Safety Instructions

**Danger Symbol**
The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of dangerous voltage in the unit

**Warning Symbol**
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the manual accompanying the unit.

## WARNING

To prevent fire or electric shock, do not expose the unit to rain or moisture. Never attempt to open the cabinet, dangerous high voltages are presented in the unit. Refer servicing to qualified service personnel when necessary.

## Maintenance Notice

- Do not put the unit: near strong magnetic field, somewhere exposed to direct sunlight or near heat radiation equipment (such as a heater), at top of other heat radiation objects, in a place with bad ventilation and much dirt, somewhere subject to vibration and instability, somewhere exposed to moisture or rain. The unit shall be installed in a smooth and dry place with good ventilation.
- When the unit is moved from a cold place to a warm one, the laser head might get dewed and the unit might not work normally. In this case, keep the power on for an hour or two (with no disk loaded) before playing normally.
- Clean the surface of the unit with some neutral detergent. Do not use organic solvent such as alcohol or gasoline. Never polish the unit with sand paper.
- If the unit is not to be used for a long time, disconnect the power plug from the wall outlet. Note: Do not pull the power cord. When disconnect the unit from the wall outlet.
- For optimum performance, do not place heavy objects on the unit.

## Caution

- The unit employs a laser system. To prevent direct exposure to the laser radiation, do not attempt to open the cabinet. Visible laser may radiate when the cabinet is opened or the interlocks are defeated.
- Do not stare into the laser beams.
- To ensure the proper use of the unit, read this manual carefully.
- Keep this manual properly for future reference. If the unit requires servicing, please contact the seller or our service center

# Table of Contents


**Basic Information**

Features of the recorder ..... 5
Terms ..... 6

**Identification of Controls**

Front and Rear Panels ..... 8
Remote Control ..... 9
Installation and Remote Control Usage ..... 10

**System Connections**

Connect to a TV ..... 11
Connect to 5.1 channel amplifier ..... 12
Connect to an amplifier with digital decoder ..... 12
System connection for recording external signals ..... 13

**NAVIGATION Mode** ..... 14

**Recording Mode**

Introduction ..... 14
Entering the recording mode and menu description ..... 14
Manual Record ..... 15
Recording to DVD or HDD ..... 15
Recording Quality ..... 15
One Touch Record (OTR) ..... 16
DV Controlled Recording ..... 16
Copy from USB to optical disc ..... 16
Copy from HDD to optical disc ..... 16

**Timer Recording** ..... 17

**Chapter Editing**

Introduction ..... 19
Entering the Chapter Editing mode ..... 19
Menu description ..... 19
Operation steps ..... 19
- Selecting the title to be edited ..... 19
- Split title ..... 20
- Chapter Marker ..... 20
- Hide/Unhide the title ..... 20
- Index Picture ..... 20
- Play ..... 20

Exiting the Chapter Editing ..... 20

**HDD EDITING**

HDD Editing ..... 21
- Delete ..... 21
- Split ..... 21
- Segment ..... 21




# Technical Specifications

**Technical Specifications**

| | | |
|---|---|---|
| Supported disc formats | | DVD, DVD+R/RW, DVD-R/RW, SVCD, VCD, MP3, WMA, CD-DA, JPEG |
| Supported recordable disc formats | | DVD+R, DVD+RW |
| Recording format | | DVD（MPEG-II） |
| Recording quality | | HQ(Perfect Quality), SP(Standard Play), SP+, LP(Extend Play), EP, SLP(Standard Long Play) . |
| Input | | Composite Video Input<br>S-Video Input (Y+C)<br>DV Input(1394)<br>RF Input<br>Analog Audio Input<br>USB Input<br>SCART Input |
| Output | | Composite Video Output<br>S-Video Output(Y+C)<br>Component Video Output<br>Analog 5.1-Channel Audio Output<br>Digital Audio Coaxial Output<br>Digital Audio Optical Output<br>SCART Output |
| Input RF Features | | System: PAL SECAM<br>Impedance: 75 Ω imbalance coaxial cable |
| Video Features | Output | Composite Video<br>System: NTSC/PAL<br>Video Level: 1.00.2Vp-p 75Ω<br>S-Video<br>Y Output Level: 1.0 Vp-p 75Ω<br>C Output Level: 0.3 Vp-p 75Ω<br>Video Horizontal resolution: ⩾500 lines<br>Y S/N 65dB |
| | Input | Composite Video<br>System: NTSC/PAL<br>Video Level: 1.00.2Vp-p 75Ω<br>S-Video<br>Y Input Level: 1.0 Vp-p 75Ω<br>C Input Level: 0.3 Vp-p 75Ω |

# Appendix (Troubleshooting Guide)

Before contacting service personnel, please check possible causes according to the following instructions.

| Symptom | Possible Cause | Remedy |
|---|---|---|
| No Power | 1.Power supply disconnected;<br>2.Bad contact between the power plug and the receptacle;<br>3. The power of the receptacle is switched off. | 1. Connect to the power supply.<br>2. Plug again or replace the receptacle with a new one.<br>3. Switch on the receptacle. |
| No sound | 1.Incorrect signal connection;<br>2.The disc is deformed or dirty;<br>3. The system is in the mute status. | 1. Connect the signals properly.<br>2. Clean or fix the disc.<br>3. Press the "Mute" button. |
| No picture | 1. Incorrect signal connection;<br>2. Incorrect TV status.<br>3. TV system out mode is Progressive, but your TV system is Interlace mode | 1. Connect the signals properly.<br>2. Adjust the TV/AV status.<br>3. Press "PS/IS" to angle to mode. |
| No color | 1. Wrong selection of TV system;<br>2. Improper color adjustment;<br>3. Incorrect video output settings | 1. Set up the system by pressing the "System" button of the remote controller.<br>2. Readjust the color.<br>3. Check if the video output settings are correct. |
| Disc cannot be played | 1. No disc in the drive;<br>2. Disc placed wrongly;<br>3. Moisture has condensed in the unit;<br>4. Not in a playing status;<br>5. Wrong disk format;<br>6. Disc is dirty. | 1. Insert a disc;<br>2. Put the disc on the disc tray properly with the label side up.<br>3. Leave the unit on for about an hour (without disc) before using it again.<br>4. Press the "Play" button to switch to playing status.<br>5. Replace it with a supported disc.<br>6. Clean the disc with a soft cloth from the centre to the edge. |
| Remote controller malfunction | 1. The remote controller is not directed at the sensor;<br>2. The receiving distance is more than 8 meters;<br>3. Low voltage of the RC batteries;<br>4. There is an obstacle between the unit and RC. | 1. Direct the remote controller at the sensor.<br>2. Reduce the receiving distance.<br>3. Replace all the batteries.<br>4. Remove the obstacle. |
| Sudden malfunction | 1. Bad disc quality;<br>2. Press other buttons by mistake;<br>3. Static from the outside. | 1. Wait for 5~10 seconds and the playing will be restored.<br>2. Operate again.<br>3. Shut off the unit for 1-2 minutes and open it again. |
| Picture dividing | 1. The selected system is incompatible with the disc; | 1. Set up the correct system. |
| External signals cannot be recorded | 1. Incorrect system connection;<br>2. No disc or non-recordable disc;<br>3. The disc has been finished;<br>4. There is no free space in the disc. | 1. Connect properly.<br>2. Insert a recordable disc.<br>3. Change a disc.<br>4. Change a disc. |
| No monitoring signal | 1. Input source not prepared;<br>2. Wrong video output system;<br>3. The actual input source is not consistent with the selected one. | 1. Prepare the input source.<br>2. Switch the video output system.<br>3. Select a proper input source. |
| Timer recording cannot be done | 1.The disc does not meet the requirement;<br>2. Wrong time settings (System Clock or Recording Time);<br>3. The input source doesn't work properly during the recording time;<br>4. System power failure. | 1. Replace it with a new DVD+R or DVD+RW disc.<br>2. Set up the time again.<br>3. Ensure the input source work properly during the recording time.<br>4. Set the system to standby status. |
| Recording aborted halfway | 1. There is no free space in the disc;<br>2. Bad disc quality. | 1. Replace it with a blank disc.<br>2. Replace it with a high quality disc. |



# Table of Contents


Change Index Picture 22
Rename 22
Lock 23
Protect 23

**Disc Operation**

Introduction 24
Entering the Disc Operation mode 24
Menu Description 24
Operation Steps 24
Erase Optical Disc 24
Lock Disc 24
Rename Disc 25
Record a New Title 25
Overwrite Disc 25
Finalize Disc 25
EXIT 25

Title Editing

Introduction 26
Entering the Title Editing Mode 26

**Play Mode**

Entering the Play Mode 26
Menu Description 26
Operation 27
Direct Play 27
Entering the Title before Playing 28
Entering Menu before Playing 28
End Play 28
Play Mode Control 29
Normal Play 29
Repeat Play 29
Program Play 30
Random Play 30
Play Process Control 31
Menu Operation 31
Forward Play 31
Back Play 31
Pause/Step Play 32
Volume Control 32
Selection Play Mode 32
Selection Play 33

# Table of Contents


Usage of the “GO TO” Button ..... 34
Audio Selection ..... 34
Audio Channel Selection ..... 34
Subtitle Selection ..... 35
Multi-angle Switch ..... 35
PBC ON/OFF(Available only for VCD 2.0 or above versions) ..... 35
Picture Zoom Function ..... 35
Play a USB DISC ..... 36

**HDD Play mode**

HDD Playback ..... 36
Time shifting introduction ..... 37

**System Setup**

Operation Interface and General Steps ..... 40
Auto Chapter Marker ..... 40
- Record Quality ..... 41
- APS (Auto program scan) ..... 41
- Modify Channel ..... 41
- Program Table ..... 42
- Country Selection ..... 43

SETUP MENU-VIDEO ..... 43
SETUP MENU-AUDIO ..... 44
SETUP MENU-LANGUAGE ..... 45
SETUP MENU-DATE/TIME ..... 46
SETUP MENU-PREFERENCES ..... 47
SETUP MENU-Time shift ..... 48

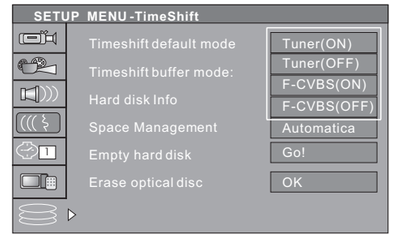
**Appendix(Troubleshooting Guide)** ..... 49

**Technical Specifications** ..... 51




# Basic Information

## SETUP MENU -Time shift

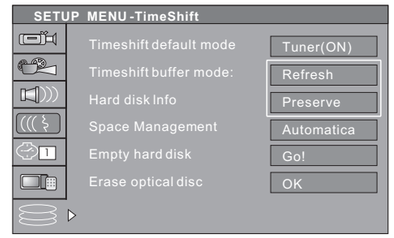



**Timeshift default source:**

Tuner(ON): When the system is turn on, it will enter the tuner and timeshift on state automatically.
FCVBS(OFF): It will enter FCVBS and timeshift OFF state automatically.

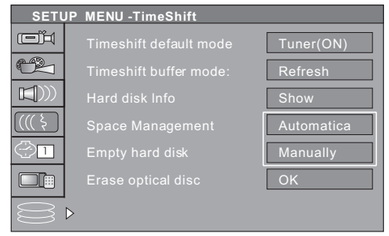
**Timeshift buffer mode:**

Use the arrow button to highlight the Time Shift butter mode row, press select button to select Refresh or Preserve.
Refresh (or flush) mode refreshes the buffer upon changing the TV channel.
Preserve maintains the content of the buffer upon changing the TV channel.
**NOTE:** Refer to Time Shift introduction page for detailed explanation.

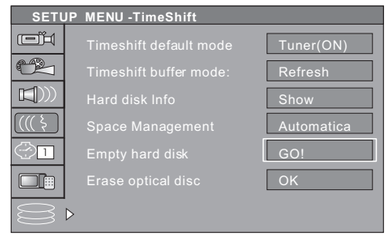



**Space Management**
Automatic: When Space Management is 'Automatic' and the HDD is full, the system should overwrite un-protected titles in FIFO scheme (the exception is when the title is selected to be dubbed - in which case, the title shall be kept until dubbing is over)

When Space Management is 'Manual' and the HDD is full. System will show the Popup message: The hard disk drive is full. Please erase some programs to perform further recording.




**Empty hard disk**
Erase all programs on HDD. A message will be shown: All video programs on the hard disk drive will be lost, the system must be restarted continue? GO, No (default)




**Erase optical disc**
Erase all programs on optical disc. A message will be shown: All video programs on the optical disc will be lost, continue? OK, No (default)

# System Setup

**Change Password**

1. To modify a password, use arrow buttons to select the “Change password” display chart. Press the “SELECT” button and a dialog box will pop up as shown in the right chart.
2. Use arrow buttons to select the “Enter password here” editor box, enter the password with the number buttons.
3. Use arrow buttons to select the “Input new password” editor box, input the new password with the number buttons.

Then input the new password again with the number buttons in the “Input new again” edit box.

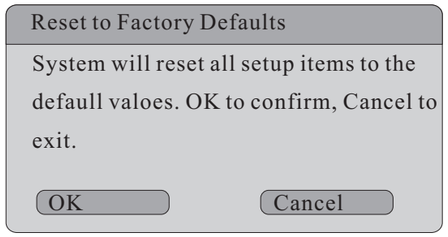
4. Use the arrow buttons to select the OK button.

After the setting of authorization level has been done, each time when the unit play a disc of such level, a password is required. If you forget the password, you can enter the super password.

**Reset to Factory Default**

1. In the General Settings menu, use the ▲or▼button to select the “Reset to Factory Default” item and press the “SELECT” button. The OSD will display as follows.
2. Use the ▲or▼button to select “OK”.
3. Press the “SELECT” button to restore all default settings.

When your unit doesn't work properly, it is possibly due to some wrong settings. Please try the “Reset to Factory Default” function to see if the unit can restore to its normal working status.




**Screen Saver**

The Screen Saver function means that when the unit is idle (or without monitored output) for some time, some interesting pictures will appear automatically on the screen as a screen saver.

1. In the General Settings menu, use the ▲or▼button to move the cursor and select the “Screen Saver” item.
2. Press the “SELECT” button and the “Screen Saver” item will drop down a list as shown in the chart.
3. Use the ▲or▼button to move the cursor, and select “ON” or “OFF”.
4. Press the “SELECT” button to activate or inactivate the Screen Saver function. When the screen saver appears, press any button to exit .
5. Press the “RETURN” button to return to the upper level menu and set up other items.



# Basic Information

Features of the recorder

The machine is capable of processing and recording various video signals into high quality DVD disks and HDD, such as the input signals of TV, ordinary disk player and DV.

In addition, the machine can be used as a DVD player of excellent performance. It has all the functions of an ordinary DVD player. The two-in-one function of the machine will increase your life quality and enhance your enjoyment of entertainment.

**Permit multiple-signal input**

1 Composite Video input
2 S-Video input
3 TV TUNER input
4 DV input
5 Analog audio input
6.USB input
7.SCART input

**Supply multiple-signal output**

1 Composite Video output
2 S-video output
3 Component Video output
4 5.1 CH output
5 Optical / Coaxial output
6 SCART output

**Multiple DVD recording quality**

The machine provides users with 6 recording qualities. And the resolution and recording time varies according to different recording qualities. You can balance between the high resolution against long recording time.

**Multiple recording modes**

The machine permits 3 modes of recording such as normal manual recording, timer recording and OTR, so as to facilitate your use.

**Simple menu operation**

The machine employs interface-friendly menu operation. You do not have to memorize the complicated functional keys and can finish most of operations using only several arrow keys and the select key.

**Stand-by Function**

Remote control stand-by function will make you use the machine more easily and freely. And it can help you finish timer recording in a power conserving manner.

**Suitable for the following disks:**

It can play DVD, DVD+R/RW, VCD, SVCD, CD-DA, Mixed CD-DA, MP3,WMA,MPEG 4,JPEG and so on multi format discs. It can record DVD+R and DVD+RW disks.

# Basic Information

## Terms

**HDD/DVD disk**
HDD/DVD disk is a highly compact device for storing. The high quality audio and video information is stored in it after being compiled in MPEG-II format. There are 4 types of DVD disks such as bosseyed single -layer DVD-5 with the capacity of 4.7 GB, bosseyed bi-layer DVD-9 with the capacity of 8.5GB, double-faced singled-layer DVD-10 with the capacity of 9.46GB and double-faced bi-layer DVD-18with the capacity of 17GB. The storing capacity of HDD is 160GB.

**DVD+RW disk**
DVD+RW disk is also called DVD + Rewritable disk. It can be recorded for about 1000 times.

**DVD+R disk**
DVD+R disk is also called Write-one DVD disk. It can be recorded for only one time. The recorded disk can be played on other DVD player after being closed and then it can not be recorded again.

**Erasing the disk**
Erasing the disk means removing information stored on the optical disc or hard disc.

**Compatibility (Finalize)**
Compatibility (Finalize) means to process the information stored in the disk so as to make it compatible with other DVD players. Without this process, the disk can only be played on this machine. This function is relevant to DVD+R disks only.

**Preparation for recording**
Formal preparation for recording includes examining the eligibility of the disk and the recording format, doing necessary optical adaptation and prewriting the content area.

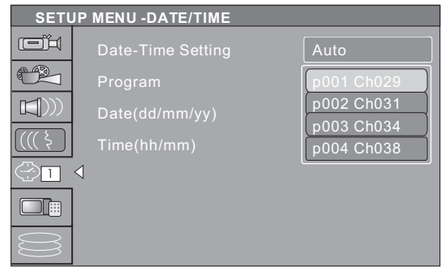
**Recording quality**
For DVD+R/RW disk with the capacity of 4.7 GB, HDD disc with capacity of 160GB, there are 6 different recording quality in accordance with the compressing program.

SLP: Ordinary resolution, a bosseyed recordable DVD disk can record 6-hour programs
EP: Ordinary resolution, a bosseyed recordable DVD disk can record 4-hour programs
LP: Good resolution, a bosseyed recordable DVD disk can record 3-hour programs
SP+: Ordinary resolution, a bosseyed recordable DVD disk can record 2.5-hour programs
SP: Better resolution, a bosseyed recordable DVD disk can record 2-hour programs
HQ: Best resolution, a bosseyed recordable DVD disk can record 1-hour programs

**Title**
The images and music in the DVD disk are divided into several parts and the biggest unit for each part is title. For ordinary image of video software, it is film. And for ordinary music of audio software, it is music. Each title corresponds with a serial number so that it can be easily searched.



# System Setup



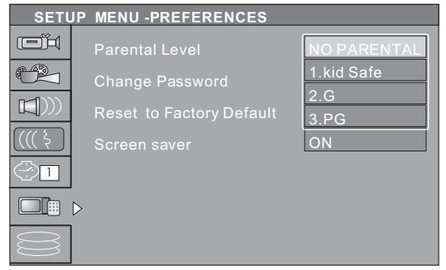

**Program**
If you select **Auto** in the Date-Time setting optical bar, you must select a Public Broadcasting Station (PBS channel in USA)which is available in your area, the clock will set itself by tuning to this channel.

**Date(dd/mm/yy)**
Press the **SETUP** button on the remote control to display the **SYSTEM SET-UP MENU**.
Use the **CURSOR** buttons of the remote control to select the Date(dd/mm/yy) and press the **SELECT** button to confirm.
Enter the correct date in mm/dd/yy format (Month/Day/Year) using the **0...9** keys.

**Time(hh/mm)**
Use the **CURSOR** button of the remote control to select **TIME** and press **SELECT** to confirm. Enter the correct time in hh:mm:ss format (Hour: Minute: Seconds) using the **0...9** keys..
After the date and time have been entered, press the **SETUP** button on the remote control to exit.

## SETUP MENU - PREFERENCES

**Parental Level**
Setting authorization level and password of the unit renders some discs which contain restricted content playable only after the input of password. This function enables you to impose restrictions on the playing of some discs which are not suitable for children.

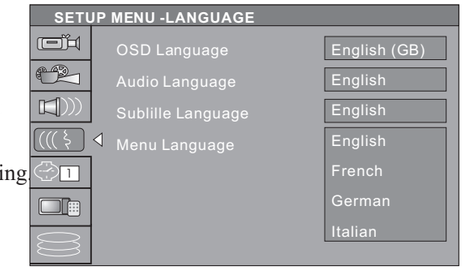



1. In the Play Settings menu, use the ▲or▼button to move the cursor, select the "Parental Level" item, and press the "SELECT" button. Then the OSD displays:
2. Enter the password, and press the "SELECT" button. The TV screen will display the dialog box as shown in the right chart. The super password is 3308.
3. Select the "Parental Level" list box, and press the "Factory" button to drop down a menu as shown in the right chart.
4. Use the ▲or▼button to select an authorization level (Off, 8: Adult...Safe) and press the "SELECT" button to confirm.
5. If the original password is not to be modified, use arrow buttons to select the "OK" button and press the "SELECT" button.

# System Setup

**Menu Language**

1. In the Language Settings menu, use the▲or▼button to select the“ Menu Language”item, and press the “SELECT” button to drop down a menu, as shown in the following chart.
2. Use the ▲or▼button to select the language you want and press the“SELECT”button.
* The system will give priority to this setting as the DVD audio output language. If the DVD played does not support the selected language, the setting will be invalid.
* You can change the audio language at any time during playing. See“Play Mode”for details.
3. Press the“RETURN” button to return to the upper level menu and set up other items.




**Note**

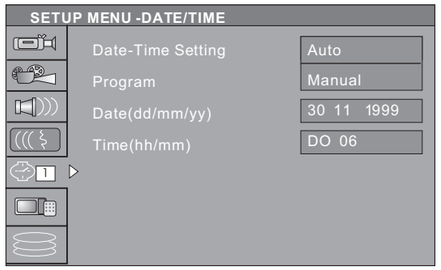
- For the DVD language settings in this section, some discs might not contain the language you set. In this case. your settings will be invalid. The language played will be the one that is provided by the disc.
- Some discs may contain a language selection menu, your selection in this menu rather than the corresponding settings of the unit will be effective.

**SETUP MENU-DATE/TIME**

**Date- Time Setting**

The time and date have to be set before a timer record can be set. There are two ways to set the product clock: AUTO setting and MANUAL setting.

Press the **SETUP** button on the remote control to display the **SYSTEM SET-UP MENU**. Use the **CURSOR** buttons to highlight Date-Time Setting bar and press the **SELECT** button. Use the◀or▶ buttons on the remote control to move the highlighted bar to Date-Time setting and press **SELECT** button to select Auto or Manual.




Auto: If a Public Broadcasting Station (PBS channel in USA) is available in your area, the clock may set itself automatically by tuning to this channel.

Manual: If the clock does not automatically set itself, the clock will need to be manually set.

Make sure the antenna or cable box connections are correct.

Change the channel to the local PBS station.



# Basic Information

## Terms(continued)

**Chapter**
It refers to the subtitle of the title of each division of the DVD image or music. Normally one title contains several chapters. And each chapter has its own mark number so that it can be searched easily.

**Track**
Music or image in CD-DA or VCD is divided into several areas. Each area is a track. Each track has its own mark number so that it can be searched easily.

**Multiple angles function**
Some DVDs record different images of one view taken from different angles.
The user can view such images by pressing the “angle” key.

**Multiple languages function**
Some DVDs record sound in several different languages. And the different languages can be released according to the corresponding function on the menu.

Multiple Subtitle function
Some DVDs record the picture description in multiple languages. Press the “SUBTITLE” key while watching, and record of subtitle in different languages will appear.

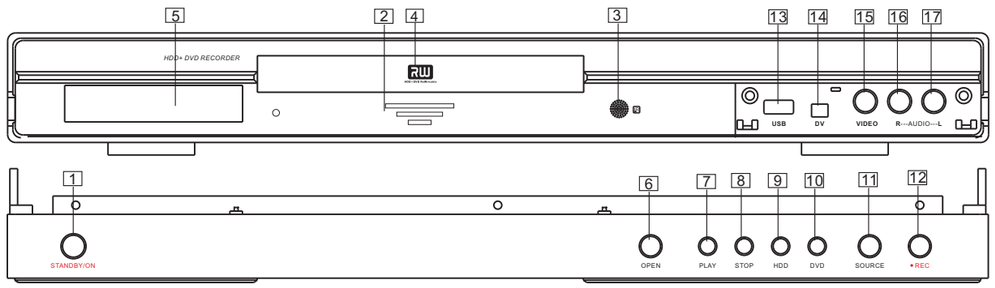
Region code
In order to protect intellectual property, the relevant organization has devided the world into 6 regions. And each region can only use DVD players and DVD disks with certain region code. The illustration on the right introduces the symbols of the six regions. The DVD players of one region cannot play the DVD disks of another one. The six regions are:

1 Canada, USA and its possessions.
2 Japan, Europe, South Africa, Middle East ( including Egypt)
3 Southeast Asia, East Asia (including Hong Kong)
4 Australia, New Zealand, Central America, Mexico, South America, Caribbean Sea
5 Former USSR region, India, Africa (including South Korea and Mongolia)
6 Mainland China

Progressive and Interlace
Interlace means a frame picture be scanned to two field, first scan odd field, then scan even field, the Images of resolution is ordinary. Progressive means a frame picture be scanned at one field, the images of resolution is higher, The machine provides both Progressive and Interlace modes.

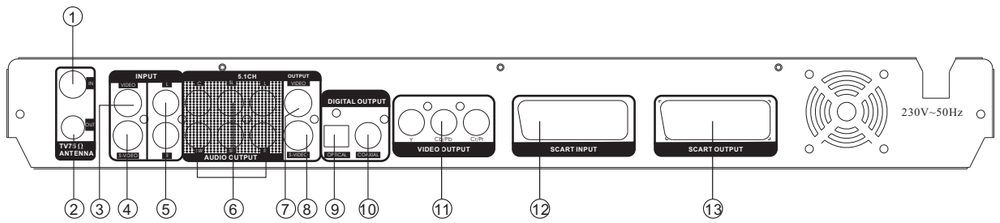
# Identification of Controls

## FRONT PANEL




1.STANDBY/ON BUTTON
2.STANDBY LED
3.IR(REMOTE SENSOR)
4.DVD DOOR
5.VFD DISPLAY
6. OPEN/CLOSE BUTTON
7.PLAY BUTTON
8.STOP BUTTON
9.HDD BUTTON
10.DVD BUTTON
11.SOURCE BUTTON
12.RECORD BUTTON
13.USB INPUT
14.DIGITAL VIDICON INPUT
15. VIDEO INPUT
16.AUDIO INPUT (FRONT RIGHT)
17.AUDIO INPUT (FRONT LEFT)

## REAR PANEL




1. RF SIGNAL INPUT
2. RF SIGNAL OUTPUT
3. COMPOSITE VIDEO INPUT(REAR)
4.S-VIDEO INPUT
5. AUDIO INPUT (REAR LEFT/RIGHT)
6. 5.1CH AUDIO OUTPUT
(L, R, SL, SR, C, SW)
7. COMPOSITE VIDEO OUTPUT
8. S-VIDEO OUTPUT(REAR)
9. DIGITAL AUDIO- OPTICAL OUTPUT
10. DIGITAL AUDIO-COAXIAL OUTPUT
11. COMPONENT VIDEOS OUTPUT
(Y, Cr/Pr, Cb/Pb)
12. SCART INPUT
13. SCART OUTPUT



# System Setup

LPCM Output

The unit can set the LPCM96K and LPCM48K difference Audio Sampling frequency.

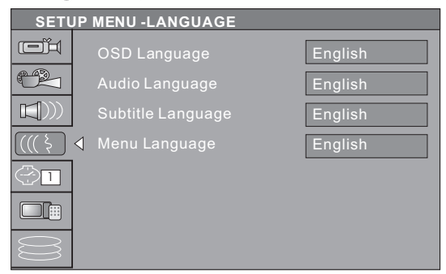
Dynamic Range

The unit can set the "full →3/ 4 →1/ 2 →1/ 4→ off" value, You can select different value to compress Audio output range. You can feel the difference of Audio output effect under different values.

## SETUP MENU -LANGUAGE

1. To satisfy the needs of consumers in different regions, the unit provides various interface languages.
2. Enter the system setup mode.

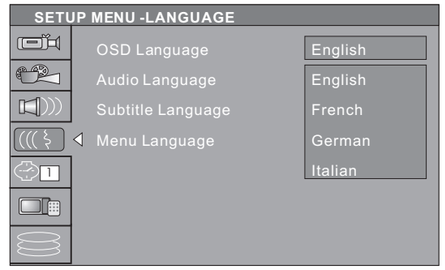
In the System Setup control bar menu, use the ▲ or ▼ button to move the cursor, select the "Language" item, and press the "SELECT" button to enter the Language Settings menu, which contains four items, as shown in the chart.




System Language

1. In the Language Settings menu, use the ▲ or ▼ button to select the "System Language" item, and press the "SELECT" button to drop down a menu.
2. Use the ▲ or ▼ button to select the language you want and press the "SELECT" button to confirm. The interface language will change immediately according to the settings.

Audio Language




1. In the Language Settings menu, use the ▲ or ▼ button to select the "Audio Language" item, and press the "SELECT" button to drop down a menu.
2. Use the ▲ or ▼ button to select the language you want and press the "Select" button.

* If you play a DVD disc supporting the selected language, the system will adopt that language as the DVD menu language.
* If the disc doesn't support the selected language, the system will adopt the language provided by the disc.

Subtitle Language

Some DVD discs may contain various subtitle languages. This setting is to determine the default DVD subtitle language.

1. In the Language Settings menu, use the ▲ or ▼ button to select the "Subtitle Language" item, and press the "SELECT" button to drop down a menu.
2. Use the ▲ or ▼ button to select the language you want and press the "SELECT" button.

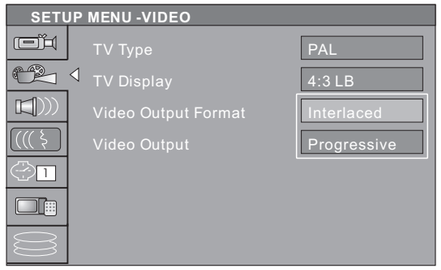
* "Off" means the subtitle output is off.
* The system will give priority to this setting as the DVD subtitle language. If the DVD played does not support the selected language, the setting shall be invalid.
* You can change the subtitle language at any time during playing. See "Play Mode" for details.

# System Setup

**Video Output Format**

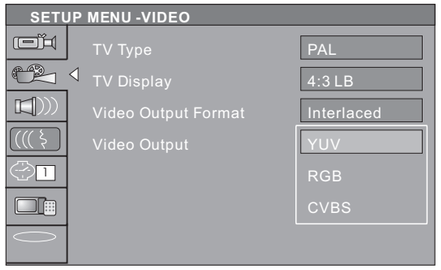
1. In the General Settings menu, use the ▲or▼button to move the cursor, select the “Video Output Format” item and press the “SELECT” button.
2. Select the Progressive or Interlace option for video scan output mode, and press the “SELECT” button to confirm.

* This function can do by pressing “PS/IS” button on the remote controller.



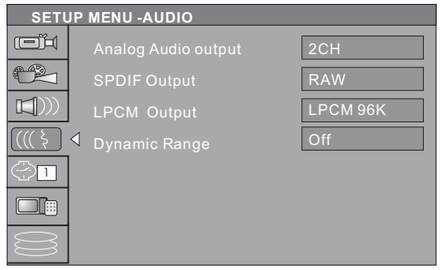

**Video Output**

1. In the General Settings menu, use the ▲or▼button to move the cursor, select the “Video Output” item and press the “SELECT” button.
2. Select YUV, RGB or CVBS terminal according to your need and press the “SELECT” button to confirm.




## SETUP MENU- AUDIO

1. Enter the System Setup control menu.
2. Use the▲or▼button to select the “AUDIO” item.
3. Press the “SELECT” button to enter the Play Setting mode. The following chart is the Play Setting main menu.




Analog Audio output

The unit can set the analog audio output at 2-CH or 5.1-CH. The output of 2-CH comes from L and R channels.

1.Enter the play settings menu, use the ▲or▼ button to select “SPDIF Output” item, and press the “SELECT” button.

2.Use the ▲or▼button to select 2-CH or 5.1-CH, and press the “SELECT” button to confirm.

SPDIF Output

This unit has a digital audio output. You can enjoy music of better quality through an amplifier with a digital audio decoder.

1.Enter the play settings menu, use the ▲or▼button to select “SPDIF Output” item, and press the “SELECT” button to drop down a menu.

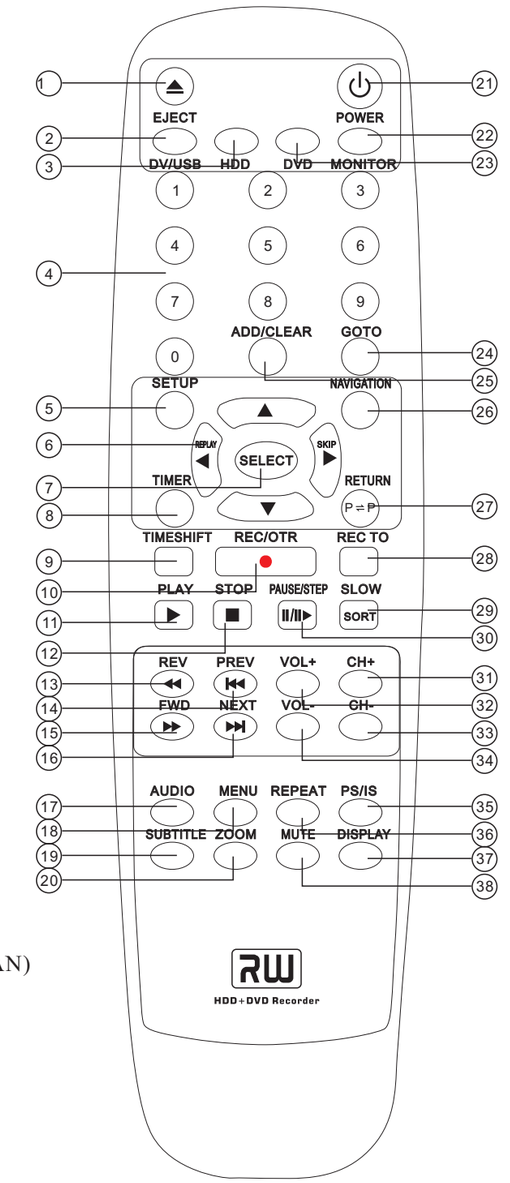
2.Use the arrow buttons to select a proper value (RAW, LPCM), and press the “SELECT” button.

3.Press the “RETURN” button to return to the upper level menu and set up other items.

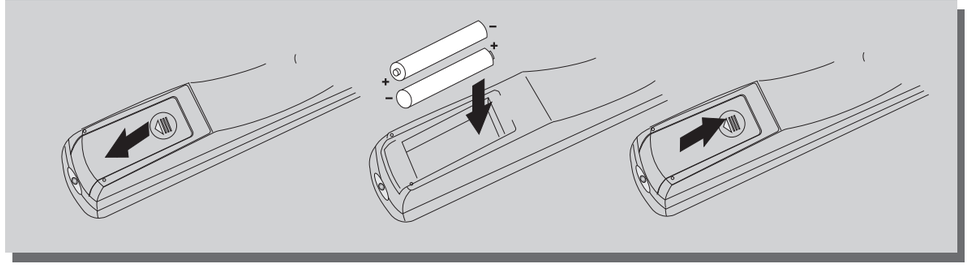


# Remote Control

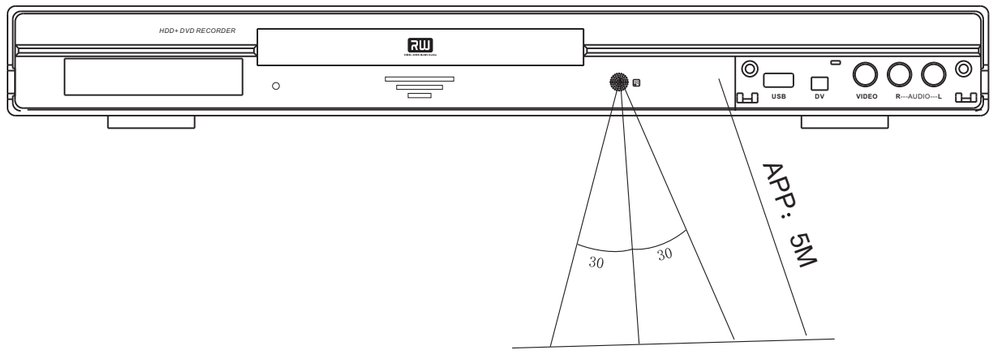
1. EJECT button
2. DV/USB button
3. HDD button
4. NUMBERS(0-9) button
5. SETUP button
6. LEFT DIRECTION /REPLAY button (UP/DOWN/LEFT/RIGHT)
7. SELECT button
8. TIMER button
9. TIME SHIFT button
10. REC/OTR button (RECORD/ONE-TOUCH RECORD)
11. PLAY button
12. STOP button
13. REVERSE button
14. PREVIOUS button
15. FWD button
16. NEXT button
17. AUDIO button
18. MENU button
19. SUBTITLE button
20. ZOOM button
21. POWER button
22. MONITOR button
23. DVD button
24. GOTO button
25. ADD/CLEAR button
26. NAVIGATION button
27. RETURN button
28. REC TO button
29. SLOW/SORT button
30. PAUSE/STEP button
31. CHANNEL+ button
32. VOLUME+ button
33. CHANNEL- button
34. VOLUME- button
35. PS/IS (PROGRESSIVE/ INTERLACE SCAN)
36. REPEAT button
37. DISPLAY button
38. MUTE button



# How to install and use the remote control



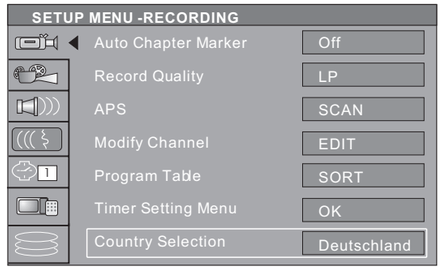
Notes:
Do not drop the remote controller or leave it in places of high humidity.
Do not leave the infrared ray receiver exposed to direct sunlight or bright light.
Please change the batteries of low power in time. And do not use new and old batteries together. Try not to use rechargeable batteries.



# System Setup

## Country Selection

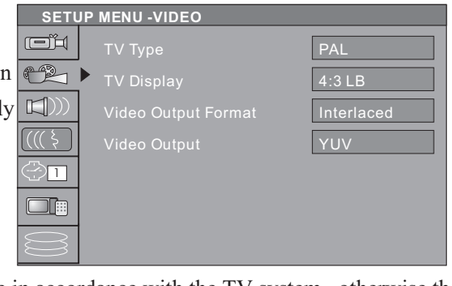
Use the remote control arrow button, you may select 19 difference countries, when select difference country option, when scanning channels, you can scan through the specific channel list of the country you have selected.




## SETUP MENU-VIDEO

TV Type

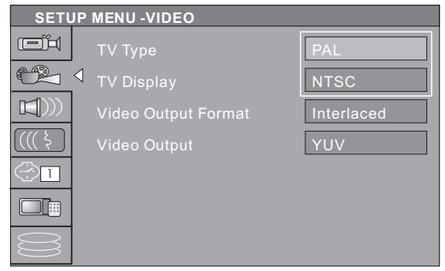
The product supports two different television systems that are incompatible with each other. **NTSC** is the television system that is adopted in the North America region, **PAL** is the television system that is adopted typically in the rest of the world especially in Europe and Asia.



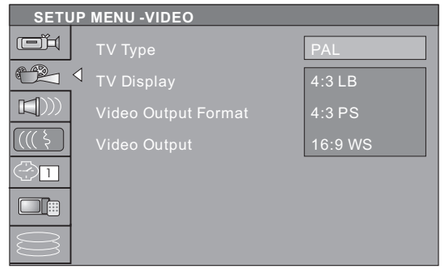

1. In the General Settings menu, select the “TV Type” item and press the “SELECT” button to drop down a menu.
2. Select PAL or NTSC.
3. Press the “SELECT” button to confirm. This setting must be in accordance with the TV system, otherwise the video output might not work properly.

TV Display

1.In the Play Settings menu, press the “SELECT” button to select the “TV aspect ratio” item and drop down a menu, as shown in the down chart.




2.Use the▼or ▲button to select a proper setting value, and press the “SELECT” button to confirm.. The values to be selected in this setting are explained as follows.**16:9WS** is suitable for a wide screen TV.
Pan Scan is suitable for a TV with ordinary screen size. When a wide screen picture is played, the left and right margin will be cut and the picture will occupy the entire screen.
**4:3** is use this for ordinary TV. When a wide screen picture is played, a black frame will appear at the top and bottom of the TV screen. The default value is Letter Box.
3.Press the “RETURN” button to return to the upper level menu and set up other items.




**Note**

- The playing effect depends on the recorded picture size. Some picture might not be played under the screen format you select.
- For those discs recorded as 4:3, no matter how the screen format is set, the screen format played is always 4:3.
- The selection of screen format shall be in accordance with the TV screen.

# System Setup

If you want to edit channels for the received TV programs, select the “Modify Channel” item, press “SELECT” button to confirm, In the pop up channel edit dialog box, use the ▲ or ▼ button and the “SELECT” button to select and confirm. The steps of channel edit are as follows.

- “Program Number” Current TV program number.
- “Name”: P003/CH031. You can change the name using the▲ or ▼ button and “SELECT” button. Press the ◀ or ▶ button to move the cursor.
- “Sound Mode”: PAL B/G, PAL-D/K, PAL-I, SECAM L, SECAM B/G, and SECAM D/K. Use the ▲ or ▼ and “SELECT” buttons to select the proper local sound mode.
- “Search type”: Frequency and Channel. Use the ▲ or ▼ button to select this item. Then you can change the scan mode during the scanning. Frequency: scanning by frequency in a manual scan; Channel: scanning by uniformly allocated channel name in a manual scan.
- Frequency: 551.3 MHz. When the search type is selected Frequency, this item will be shown as the frequency. Press the ◀ or ▶ button to scan channels manually by frequency.
- Channel: CH006. When the search type is selected Channel, this item will be shown as the channel. Press the ◀ or ▶ button to scan channels manually by channel.
- S-Band: S-Ch001. When the search type is selected S-Band, this item will be shown as the S-Band. Press the ◀ or ▶ button to scan channels manually by S-Band.
- “Fine Tuning”: Use the ▲ or ▼ and “SELECT” buttons to select this item and press the◀ or ▶ button to tune the frequency lightly.
- Delete : Press OK delete current program.

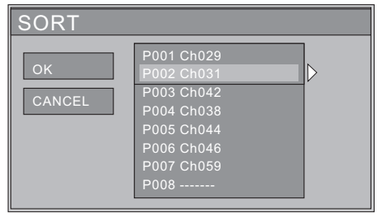
After the channel information is modified, select OK and press the “SELECT” button to confirm. Then return to the Channel Scan menu.

**NOTE:**

When in the TV state, if the audio of channel contain the stereo sound, you can press “ Audio” button to switch the audio output between mono and stereo sound. Or if the audio of channel contain the dual language, you can press “Audio” button to switch the Audio output among mono, dual A and dual B sound.

**Program Table**

If you want to sort various channels again, select the “Sort Channel Order” item, press the ▲ or ▼ and “SELECT” buttons to enter the “Channel Sorting” menu, and operate as follows.




- In the left dialog box, press the ▲ or ▼ button to locate the channel to be changed.
- Use ▶arrow button to move this channel to the right dialog box, press “SELECT” button to confirm.
- Press the ▲ or ▼ button to move this channel to a desired location.
- Press the “SELECT” button to insert the channel. The original channel at this location will move to the next location.
- After completing the sorting, press the “RETURN” button to exit.

**Note**

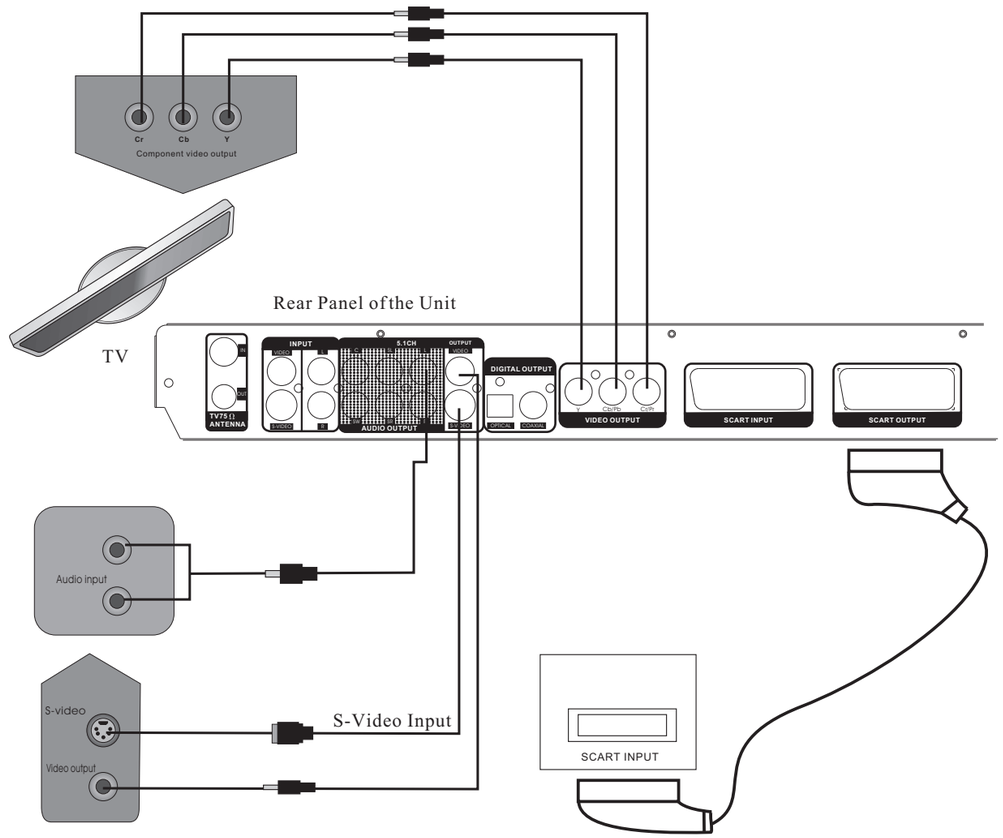
Be sure to connect the antenna properly before the channel scan operation. Make sure there are TV signals at the TV Signal Input. For the connection chart, please see the “Basic Information: System Connection for Recording External Signals” for reference.



# System Connection

**Connect to a TV**

Before the system connection, be sure to switch off the power source of this unit and other devices.




There are three kinds of video outputs in the unit, namely component video, S-Video and composite video. You can select one of the available video outputs of the TV and then make the connection.

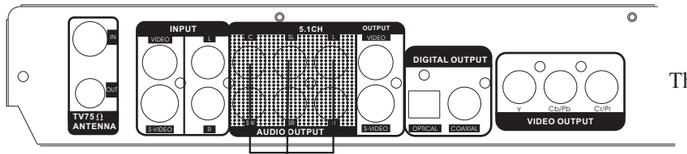
In terms of picture quality, the component video is the best; S-Video comes next, while the composite video is less satisfying.

When connecting the audio output of the unit to the TV, connect the left and right audio outputs to the TV audio inputs of the same group as the connected video inputs.

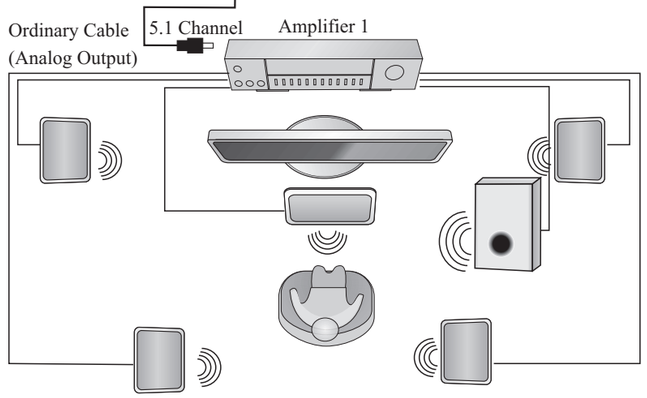
There is a scart output in the unit, use a scart cable to connect to the TV. A composite video (CVBS), a component video (RGB) and audio (L & R) outputs are built in the scart output. When the scart output is used, none of the above-mentioned cables is needed for connection.

# System Connection

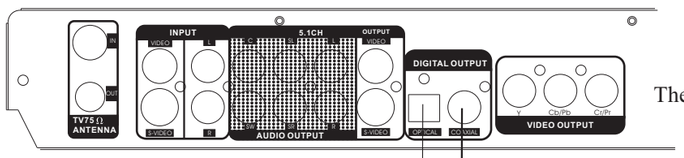
## Connected to 5.1 channel Amplifier



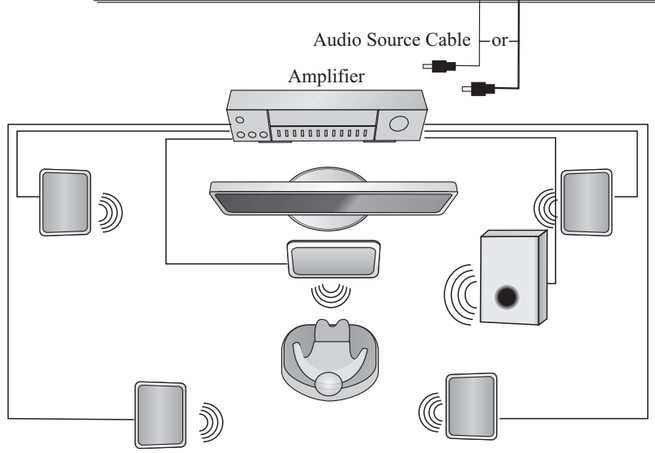

The Rear Panel of the Unit




## Connected to an amplifier with digital decoder




The Rear Panel of the Unit




- In Audio Setup, set the “Digital Output Mode” to “LPCM Output” (For details, see “System Setup-Digital Audio Output” for reference).
- When using a digital signal output (coaxial or optical), the Analog Output cable is not needed for connection.

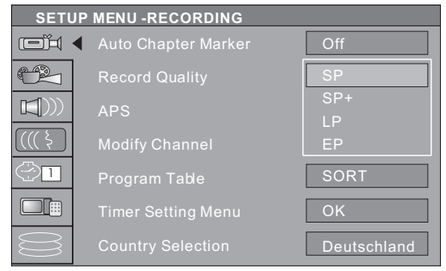


# System Setup

Record Quality

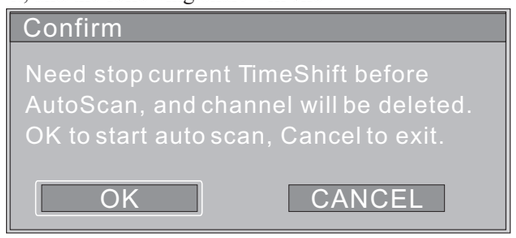
1. In the Recording Settings menu, use the ▲ or ▼ button to select the “Default Quality” item, and press the “SELECT” button to drop down a menu.
2. Use the ▲ or ▼ button to select a desired value and press the “Select” button.
3. Press the “RETURN” button to return to the upper level menu and set up other items.

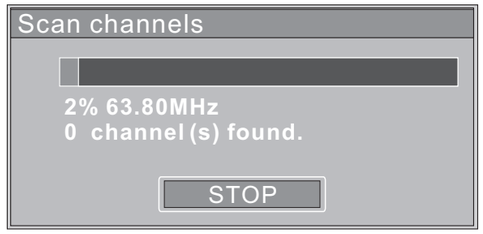
* For the differences of the six quality levels, SP, SP+, LP, SLP, EP and HQ, see the glossary for reference.




APS(Auto program scan)

The unit has a channel tuner. You can receive TV signals directly from the unit. Before the tuning, you must conduct a channel scan to enable the unit to tune in various channels automatically and determine their frequencies. The tuned channels will be saved automatically. Even if the power is off, the saved channel information will not be lost. Press the “SETUP” button to enter the “System Setup” mode. Use ▲or ▼button, highlight APS, select it, and the following chart will show.


Confirm
Need stop current TimeShift before AutoScan, and channel will be deleted.
OK to start auto scan, Cancel to exit.
OK
CANCEL




The meanings of the icons:

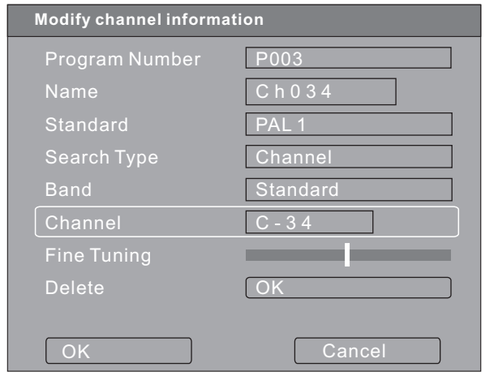
1)press the ▲or ▼button to Select the “APS” item, as shown in the left top chart (if in TV channel state) .

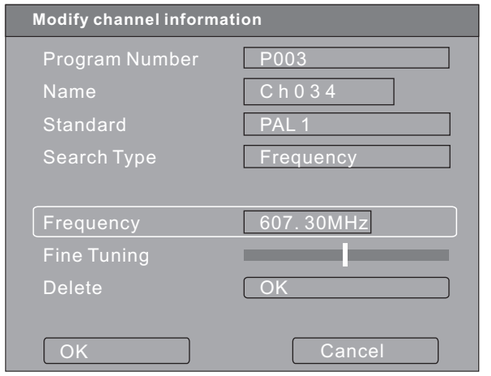
2) Press OK button, shows the right top chart. The tuner will start searching through various channel frequencies and add available channels to the system memory. This procedure may take several minutes.

3)When the scan is complete, “TOTAL CHANNELS FOUND” will appear on the screen with the number of channels that have been stored to memory. Press the SETUP button on the remote control to exit.

Modify Channel

Use the▲ or▼button to Select the “Modify Channel” item, in dialog chart select OK. As shown in the following chart .



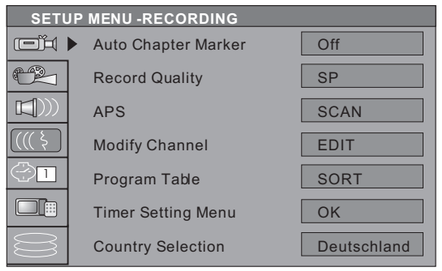
# System Setup

To satisfy customers with different characteristics and suit related devices of different qualities, the unit provides various functions. You can setup the system of the unit and regulate its operations to cater for your taste and suit well with other related devices of yours. But if you think it's too complex, you may also use the default settings, which can meet your basic demand.

## Operation Interface and General Steps

This section will introduce the menu interface of the System Setup and general operation steps.

1.Press the “SETUP” button to enter the System Setup mode. Now the system setup control bar menu will appear on the top of the OSD, as shown in the following chart.




The meanings of the icons are as follows.

1)Auto Chapter Marker
2)Record Quality
3)APS
4)Modify Channel
5)Program Table
6)Timer Setting Menu
7)Country Selection

2.Use the ▲or ▼button to select items to be setup in the control bar and press the “SELECT” button to enter the setup menu of the item. In the setup menu of a certain item, press the arrow buttons and the “SELECT” button to operate some control units, and the corresponding settings will be done.

3.Press the “RETURN” button to return to the upper level menu. Press the “SETUP” button to exit the System setup mode.

**Note**

- The steps above are general and typical operations. Some settings might not need a certain step, or require more steps.
- Please set up the system in the Eject Disc mode or No Disc mode, otherwise some settings cannot be done.

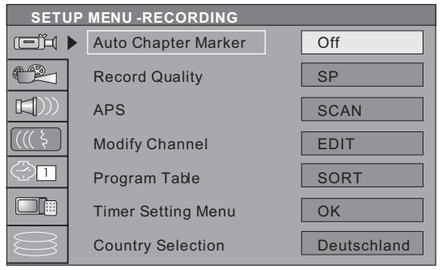
## Auto Chapter Marker

1.In the Recording Settings menu, use arrow buttons to select “Automatic Chapter Marker”, and press the “SELECT” button to drop down a menu.

2. Use the ▲or▼button to select a proper value ( 5min, 10min, 20min, 30min or off ), and press the “SELECT” button to confirm.

3. Press the “RETURN” button to return to the upper level menu and set up other items.

* Use different time option to insert chapter markers at x-minute intervals during recording.

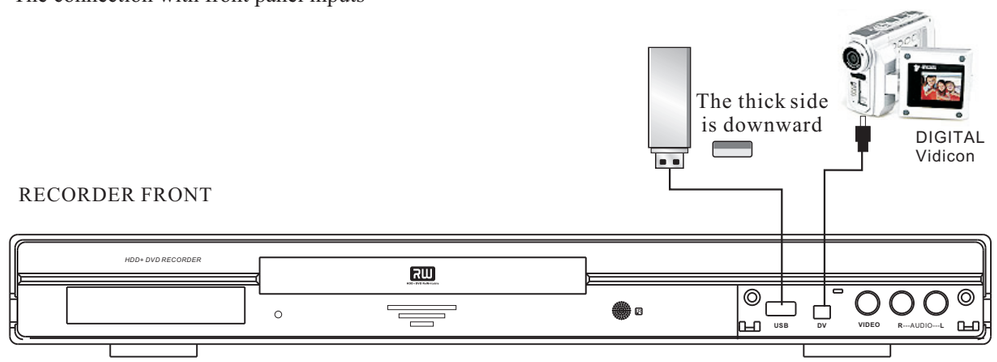





# System Connection

## System connection for recording external signals (front panel signal )

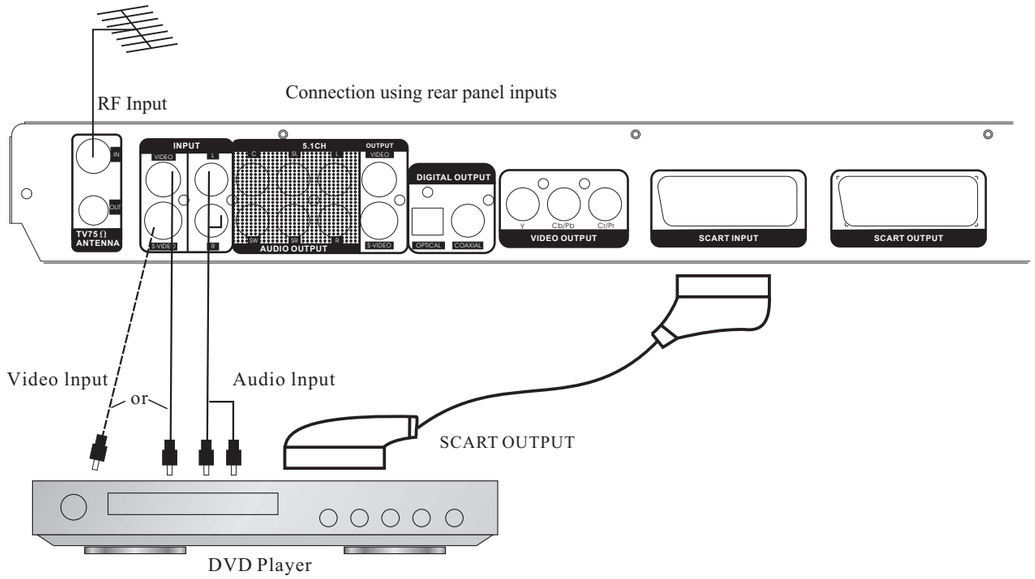
When connecting with external signals, be sure to switch off the power source of the unit and other devices. The connection with front panel inputs




**NOTE**

- Refer to the manual of the connected system.
- Turn off the power and unplug both units before setting up any connections.

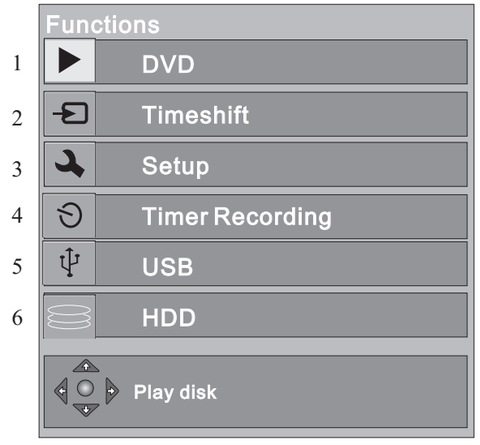
## System connection for recording external signals (rear panel signal input)




- From the video input terminals, select one as desired. In terms of picture quality, CVBS stands for good, S-VIDEO for better .

## NAVIGATION Mode

The NAVIGATION Mode can realize all functions of the unit.




Press the “NAVIGATION” button of the remote control to display the screen on the left.

1.Switch to DVD Playback Mode;
2.Switch to TIMESHIFT Mode;
3.Switch to SYSTEM SETUP Mode;
4.Switch to TIMER RECORD Mode;
5.Switch to USB Playback Mode;
6.Switch to HDD Playback Mode;

## Recording Mode

### Introduction

There are various external signal inputs in the unit, including S-Video, composite video, TV tuning , DV input and stereo audio input. You can select any group of audio and video signals from these inputs for recording.

The recording discs of the unit include DVD+RW, DVD+R and HDD. There are six available recording modes of different qualities, including SLP (6 hours), EP (4 hours), LP (3 hours), SP+ (2.5hours),SP (2 hours) and HQ (1 hour).

The unit has a function of timer recording. You can set up a recording schedule in advance. The unit will record the programs that you select automatically.

### Entering the recording mode and menu description

To enter the recording mode, take the following steps:

1. In the Non-rewritable Disc mode, press the “SOURCE” button to enter the Monitoring Mode.
   - The Monitoring Mode can be regarded as a sub-mode of the Recording Mode.
2. The system will automatically enter the Recording Mode when the setup time is reached.
   - For details about timer recording, see “Timer Recording” for reference.
3. In the Recording Mode, press the “INFO” button to show or hide the recording control bar menu.



## HDD Play Mode

The Saved program will be removed from the Time shifting buffer when Stop is pressed. The product will carry out the Save immediately if the system is powered down.

While in Time shifting mode, you can use the following keys for other operations:

| Key | Result | Note |
|---|---|---|
| **HDD** | HDD title list | (recording continues) |
| **DVD** | Play disc | (recording continues unless you want to record to DVD) |
| **USB** | USB | To play slide show from USB device or copy from USB to DVD. (recording continues) |
| **Display** | **Display information list** | (recording continues) |
| **Eject Key** | Open/close the tray | (recording continues) |
| **Power Key** | Power off | |
| **Setup** | Bring up Setup menu | (recording continues) |
| **Timer** | Bring up Timer menu | (recording continues) |
| **Monitor** | Changes the video source | |
| **I/P** | Change the video output mode to Interlaced/Progressive Scan | |

NOTE: (option: SETUP, HDD, SPACE MANAGEMENT, AUTOMATIC). If the STOP is not pressed and the recording takes all the available space on the hard disk drive, the product overwrites un-protected titles in the FIFO (First In First Out) scheme. This rule will not affect titles that are selected to be copied to DVD The selected tiles will be kept until copying operation is over. Even after this procedure, there is no space on the HDD to record, the product will provide the same message as if it was in MANUAL mode (see next)

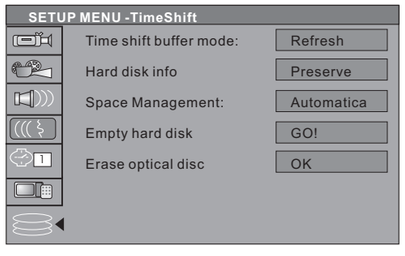
Note: (option: SETUP, HDD, SPACE MANAGEMENT, MANUAL). If the STOP is not pressed and the recording takes all the available space on the hard disk drive, the product will stop recording and repuest the user to erase some titles and create more room on the HDD.

Note: When the source is DV, the recording will not be in Time shifting buffer. Press Source (repeatedly) to select DV as your video source. The product’s remote control will be able to send Play, Pause, Fast/Slow Forward/Reverse commands to the camera and start a Recording (Rec), Pause (a recording) and Stop (a recording).

You can use the SETUP, HDD, option to erase the entire content of the HDD. Please proceed with caution, as this process is irreversible. The product will ask you: All video programs on the hard disk drive will be lost, continue? Yes, No (default)

# HDD Play Mode

If you are using the default value of setup->Timeshift->Timeshift default source-> Tuner(ON). When the product is turn on, the system will enter into Tuner state. Timeshift turn on mode automatically, when select FCVBS(OFF) item. Enter into FCVBS state, Timeshift turn off mode.
If you are using the default value of Setup-> HDD->Timeshift Buffer->Refresh, and change Channels, the Time shifting buffer data will be lost. No message will be provided prior to doing so. However, if you set Setup-> HDD->Time shift Buffer->PRESERVE, and change Channels, the Time shifting buffer data will be maintained.




Note: If you change the input source of video and the video standard is different (NTSC vs. PAL), the Time shifting buffer will be erased.
Note: During Time shifting, a Timer recording (programmed recording) may come up. As you can not watch one program in Time shifting and record another channel, the product will ask you to confirm if you want to keep the current channel or proceed with Timer recording. If there is no response, the product assumes Timer recording should be started. The message will appear 2 minutes before the Timer recording is due.

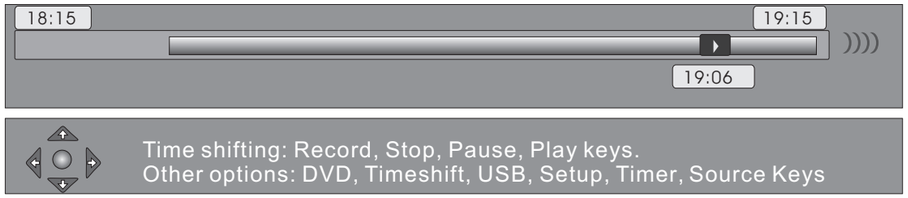
Time shifting is stored in a buffer that contains 60 minutes of recording. After 60 minutes, the buffer will be progressively overwritten. If you need to keep the video contained in this buffer for future use, you can Save all or part of the buffer.

## Save

In order to Save from within Time shifting buffer, two options are available:

Save Option 1. While viewing a program, press Rec. This will start saving the segment you are watching. You can navigate forward. During the saving operation, by pressing Rec, you will increase the length of the program you are saving by 30 minutes up to a maximum of 3 hours. Press STOP to indicate the end of the saving operation. The saved part of the time shifting buffer will be tagged in red color.

*Save in Time shifting buffer*




Save Option 2. While viewing a program, press **Rec** and hold down for 3 seconds. This will save the entire Time shifting buffer. If **Stop** is pressed, the saving will terminate at that point in the buffer. During the saving operation, by pressing **Rec**, you will increase the length of the program you are saving by 30 minutes up to a maximum of 3 hours. Press **Stop** and hold for 3 seconds if you want to cancel the entire saving operation.

**Note:** You cannot change the channel or the source if saving is on-going (the end of the recording segment is either not entered, or in case of long recording, it has not been reached). Saving has to be manually stopped first (by pressing **STOP**). The product will request you to Stop saving first. The segment will be Saved on HDD and then channel or source change can be performed.

**Note:** Only one segment in the Time shifting buffer can be identified for Saving. It is not possible to identify multiple segments. Once the segment has been Saved and registered on Title list, this segment (and its preceding video part) will be removed from the Time shifting buffer.



# Recording Mode

## Manual Recording

### Recording Source

You can select which video input the machine should record from. The following options are available:
•Rear CVBS (Composite) •Rear S-Video •Tuner •Front CVBS (Composite) •DV Input

Press the **MONITOR** button (repeatedly) to change the video source and select one of the above.
**Note**: If you are recording from a rear source, make sure your audio connections are connected to the rear audio inputs. If you are recording from a front source, make sure your audio connections are connected to the front audio inputs.

## Recording to DVD or HDD

### Select Recorder to HDD or optical disc:

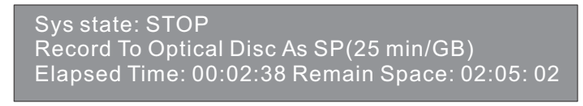
Press Timeshift button once to switch to manual recording mode, and press REC TO button to switch difference HDD or DVD Record source.

If you have a recordable media in the tray, you can press Rec and start recording (OTR) to DVD. Press Stop to finish recording.

**Note**: The product will continue to record until the disc is full. To set the product to record for 30 minutes only, press the **RECORD** button after recording has started. A message will be displayed on the screen indicating that the product will record for 30 minutes. Each time the **RECORD** button is pressed, an additional 30 minutes will be added to the record time. To pause the recording, press the **PAUSE** button on the remote control . Press the **PAUSE** button or the **REC** button to resume recording. Recording will continue until the **STOP** button on the remote control or the product front panel is pressed.

Press the remote control Timeshift button once, turn on Timeshift mode, press the button twice, switch to manual recording mode display the chart below.

Note: In the display chart, you may press REC TO button to switch difference HDD or DVD Record source.




## Recording Quality

You can select from up to six record quality settings to define the picture quality of the recordings and the amount of space you want to use on the DVD/HDD. Higher quality recordings will consume more space and low quality recordings will consume less space on the DVD/HDD.

**NOTE:** Use the ADD/CLEAR button to switch between different record quality options.

| Record Quality | Recording Time (4.7GB,DVD) | Recording Time (160GB,HDD) | Video Quality |
|---|---|---|---|
| HQ (High Quality) | 1 Hour | 34 Hours | Best |
| SP (Standard Play) | 2 Hours | 68 Hours | **Very Good** |
| **SP+**(Standard Play) | 2.5 Hours | 85 Hours | **Good** |
| LP(Extended Play) | 3 Hours | 102 Hours | Normal |
| EP (Long Play) | 4 Hours | 136Hours | **Moderate** |
| SLP (Super Long Play) | 6 Hours | 204 Hours | Low |

## One Touch Recording (OTR)

This function enables you to set up the timer during the recording process. Once the scheduled time is reached, the system will stop recording automatically.

1. Enter the “Recording Mode” and start recording.
2. For desired timer recording, press the “REC/OTR” button once or several times.
   - The recording time will increase by 30 minutes with every pressing of the “REC/OTR” button. If the scheduled time exceeds the recordable time of the disc, normal recording mode will restore.
   - If the timer recording is paused or stopped, the system will cancel the timer recording process.

# Recording Mode

## DV Controlled Recording

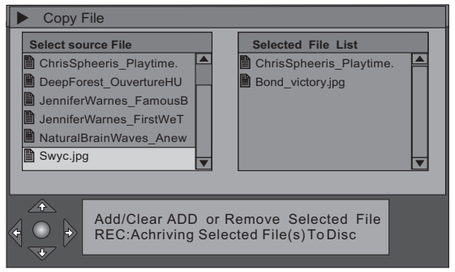
1. This unit can perform real-time monitoring and recording for a DV through the IEEE 1394 serial port (DV).
   - Connect the DV to the unit (for details, see “System Connection: System Connection for Recording External Signals”) by the front panel inputs.
   - Switch on the power of the unit.
   - Press the “DV” button.
   - Switch on the “Power” button of the DV, set it to the “CAMERA” mode, and start monitoring.
   - Press the “REC/OTR” button to start recording. (Other operations is the same as in the Recording Mode)
2. This unit can also record the VCR content of the DV.
   - The connection method is the same as stated in the first 3 steps of 1.
   - Switch on the “Power” button of the DV to enter the VCR status, and the VCR status is “Stop”.
   - Use the remote controller of the unit to complete the operations of the DV, including STOP, PLAY, PAUSE, FB, FF, etc.
   - Press the “REC/OTR” button and then press the “PLAY” button to start recording.
   - During the recording process, press the “PAUSE” button to suspend recording of the unit, and press the button again to suspend the DV. To restore play of the DV, press the “PLAY” button; if you press the “REC/OTR” button, the play of the DV and the recording of the unit will resume at the same time; press the “FWD”, “REV” button to complete forward or rewind operation for the DV, while it reports Pause status to the unit; If you press the “STOP” button, the recording of the unit will stop first, and press again to stop the play of the DV.

Note: Do not move the unit or switch off the power during the recording process.
The finalized DVD+R disc could not be recorded.
Be sure to switch off the power of the unit and the DV before connecting the DV cables.

## Copy from USB to optical disc

Enter the USB playback state ,Press **REC** to enter the USB archive mode. In this mode, press ADD/CLEAR button to select the files you desire to copy to DVD in the same file list. Then press **Rec** to start archiving. The archiving will take place in a unique directory created by the product.

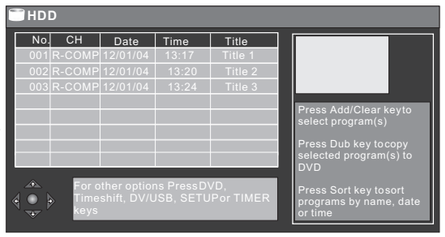
**Note**: You may only archive to a blank DVD, or a DVD that was previously used only for archiving from USB. You may not archive to a DVD that has already been used for video recording.




## Copy from HDD to optical disc

Press the remote controller HDD button, enter into the HDD display state . Show as follow, in this state, press ADD/CLEAR key to select the five titles you desire to copy to DVD, then press REC key to copy selected file to DVD.

**Note1:** In DVD tray ,there should be a blank Rewritable DVD disc ,or the disc was previously used only for archiving from HDD.


HDD
No CH Date Time Title
001 R-COMP 12/01/04 13:17 Title 1
002 R-COMP 12/01/04 13:20 Title 2
003 R-COMP 12/01/04 13:24 Title 3
Press Add/Clear key to select program(s)
Press Dub key to copy selected program(s) to DVD
Press Sort key to sort programs by name, date or time
For other options Press DVD, Timeshift, DV/USB, SETUP or TIMER keys

**Note2:** When copying from HDD to DVD+RW disc, there will be a flashing icon on the upper left corner of the screen to indicate the recording process.

**Note3:** You can press the STOP button to finish copying from HDD to optical disc **ONLY** in **HDD** mode.

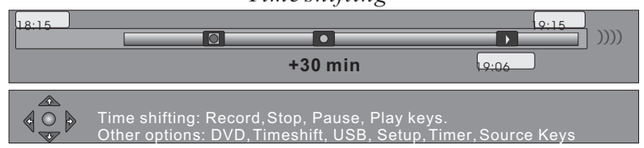


# HDD Play Mode

## Time shifting introduction

When the product is turned on, if the setup menu setup->Timeshift->Timeshift default source-> Tuner(ON) or you press Timeshift button from other menus, the last viewed TV channel will be tuned in and Time shifting starts automatically. Time shifting allows 'pausing' the live TV broadcast for up to 60 minutes. At any time, the viewing can resume. Press PAUSE to pause the broadcast, press PLAY to resume TV viewing. If the system is paused for 60 minutes, it will automatically resume TV viewing.

*Time shifting*




| Remote contro | On-Screen Display |
|---|---|
| **Display** (pressed once) | Time shifting buffer information. Current playback time, time of recording, time of recording minus 1 hour, trick mode status, Saving status, Channel/Source information, Dubbing indicator (if Dubbing is on-going) – see *Time shifting* figure |
| **Display** (pressed twice) | Hot keys and navigation information |
| **Display** (pressed three times) | Removes all On-screen Display |

You can navigate in Time shifting mode and control the audio output by using the following remote control keys:

| Key | Result | Note |
|---|---|---|
| **CH+/-** | Change the channel | Note: By default, changing the channel will erase all Time shifting required for the current channel. This option can be reset in the **Setup-> HDD-> Time shift Buffer-> Preserve** |
| **0-9** | Change the channel | |
| **FF** | Fast Forward. Press to cycle through 4, 8, 32x speeds. | |
| **Slow** | Slow forward. Press to cycle through 1/2, 1/4 or 1/8x speeds | |
| **Replay** | Jump back 10 seconds | (Arrow Left Key) |
| **Skip** | Jump forward 30 seconds | (Arrow Right Key) Hold the Right key for 2 seconds there will be a jump to the end of the buffer (Live recording) |
| **Mute** | Mute audio on/off | |
| **VOL+/-** | Decrease/increase volume | |

# Play Mode

### Play a USB DISC

- Insert the USB disc, the unit will detect it automatically and display a “Ψ” symbol in the lower right corner of the TV screen for a second.
- In the DV Mode, press the “DV” button, or in the NAVIGATION Mode, to switch to USB Play Mode.
- The unit will automatically identify the files in the USB DISC. The playable formats of the unit include: *.WMA,*MP3 *.JPG.
- Press the ▲, ▼and “SELECT” buttons to select an item to play.
- Press the ▲, ▼ and “ADD/CLEAR” buttons to select the Program Play. (Note: In the Program Play mode, audio files such as*MP3 and *.WMA and video files such as *.JPG cannot be programmed at the same time. That is, if the program includes audio files, the video files cannot be programmed).
- When finish playing, the USB DISC can be unplugged directly. (Note: Do not unplug the USB disc while it is playing).

# HDD Play Mode

### HDD Playback

Press the remote controller HDD button or in the NAVIGATION mode, switch to HDD/Playback state.
During HDD playback, the following remote control keys are valid:

| Key | Result | Note |
|---|---|---|
| Play | Play (resume) | Follows Pause |
| Pause | Pause/Step | |
| Stop | Stop | Will return to the Title list. Same as Return |
| Return | Return | Will return to the Title list. Same as Stop |
| FF | Fast Forward x 4, 8, 32 | |
| Slow | Slow forward x1/2, 1/4, 1/8 | |
| Next | Skip Next chapter | |
| Previous | Skip Previous chapter | |
| Display | Display OSD info and online help | When pressed repeatedly, toggles between: progress bar -> add helper text (and dynamic compass) -> add title info (on the top) -> no overlay |
| Repeat | Repeat Title | |
| Right | Skip | Jump forward by 30 seconds |
| Left | Replay | Jump backward by 10 seconds |
| HDD | HDD title list | |
| DVD | Optical disk manipulation | |
| Timeshift | Time shifting | Also can press **Monitor** to record from sources other than TV |
| Timer | Timer recording setup | |
| USB | USB mode | Slide show view, or USB to DVD archiving |
| ZOOM | ZOOM | See details below |
| Goto. Num(0-9) | Time search | Press Goto button and Num(0-9)button to select the Goto Time. |

ZOOM
The zoom feature allows you to enlarge an image that is currently displayed on the screen and pan through to specific areas on the zoomed image. There are two zoom options available (1.5x, 2.0x) which will be indicated on the screen.

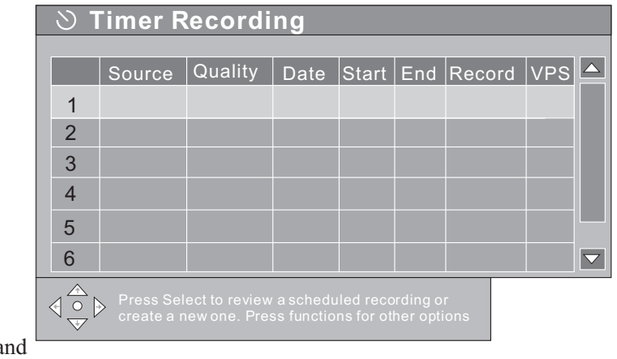
During pause, press the **ZOOM** button to zoom the image on the screen to 1.5x.
Use the **CURSOR** buttons to pan (select the part of the image you want to zoom in on)
Press the **ZOOM** button again to zoom the image on the screen to 2.0x.
Press the **ZOOM** button again to return the image on the screen to normal.



# Timer Recording

You can set-up the product to schedule recordings to begin and end at a specific time. The recording can be onto HDD or DVD. This feature is useful if the specific quality, time, date and channel of a program you want to record is known in advance.

1. Press the “TIMER” button to enter the timer recording schedule setup menu, as shown in the chart to the right. There are 8 records in this menu. Each record represents a recording schedule.




2. In the timer recording setup menu, use the ▲ or ▼ button to select a record, and press the “Select” button.

3. Set up the input source
In the Item Editor dialog box, use the ▲, ▼ and “Select” buttons to select the value of “SOURCE”.

4. Set up the recording quality
In the Item Editor dialog box, use the ▲, ▼ and “SELECT” buttons to select the quality value. For more in formation about recording quality, for reference: HQ, SP, SP+, EP, LP, SLP.

5. Set up the recording mode
This setting is done with the third control unit in “Item Editor” dialog box. Move the cursor, select the row, and press the “SELECT” button to initiate the drop-down menu.

- The setting may arrange a timer recording everyday, or on some day of every week, or on a certain day of the year.
- There are three options in the list. Their meanings are as follows.

**Weekly:** recording every week.
**Daily:** recording everyday
**Once:** recording on a certain date

# Timer Recording

6.Set up the Recording date.

A. If you select “Weekly”, press the “SELECT” button to confirm. Move the cursor to the right control unit in the row, and press the “SELECT” button to pop up a week list, as shown in the chart. Select a proper value according to your need.

B. If you select “Once” press the “SELECT” button. The date input editor box will appear on the right. Highlight the box and press the “SELECT” button, then use the number buttons to enter the date in the form of “MM/DD/YY”, press the “SELECT” button to confirm. If the input is invalid, the system will prompt an input error message. At the same time, the “Date Input Editor Box” will be left empty. Please enter the date again.

7. Set up the starting time of recording: In the “Item Editor” dialog box, use the arrow buttons and the “SELECT” button to highlight the “Start” option and the input box. Enter a value between 0:00 and 23:59 with the number buttons and press the “SELECT” button to confirm. This function is used to set up the starting time of the recording. If the input value is beyond the range of 0:00-23:59, the system will give an invalid message..

8. Set up the end time of recording.

Terminated operation is similar to Step 8.This setting means: when the end time is reached, the recording process will be stopped and the unit turns to standby status.

9.Record to source: you maybe select HDD and optical disc source.

10.Set up the record title, use ▲ or ▼ to change the letter, press select button to enter it.

11.Switch the VPS function on/off. When this function is on, the system will track down and record the TV signals automatically according to the starting time. It can also pause or stop recording automatically according to the information given by the TV signals. When the starting time is reached but the unit doesn't get the starting time information, the recording will start at the scheduled starting time. When the scheduled end time is reached and the unit doesn't get the information, the recording will end at the scheduled end time. But the unit will wait for 29 hours. If the unit receives starting time information during this time, continue recording to according to this information, After that, if the starting time information is still not available, this setting will be cancelled. (Note:VPS feature depends on local TV broadcast signal.)

12. After completing setup of various parameters of timer recording, highlight the OK location, press the “SELECT” button, and finish setting up a timer recording schedule.

13.Press the “TIMER” button to exit the timer recording setup menu.

14.After setting up the timer recording schedule, configure the system according to the schedule and make sure the system is in standby or working status.

15.If the system is conducting another operation five minutes before the schedule time, it will pop up an information box, prompting you whether to start recording or not. If the recording condition is met, highlight the OK button and press the “SELECT” button to confirm. If the information box is left unattended, the system will take it as a consent to record. After a while, it will start the recording according to the set schedule.

16.If the system is in standby status, it will enter the recording mode automatically 3 minutes in advance and start recording following the set schedule.

17.After completing the recording, the system will restore the status before the recording automatically.

**Note**

- The system must be properly configured with the set values before completing expected recording jobs.
- Select any timer recording item and press the “ADD/CLEAR” button to delete it.
- Do not use the finalized DVD+R disc

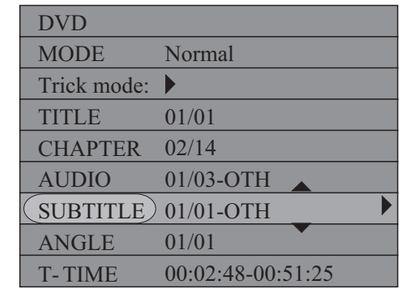


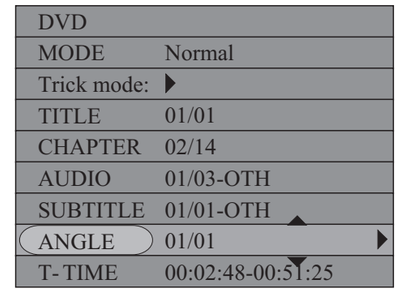
# Play Mode

## Subtitle Selection

Some DVD discs may have more than one kind of subtitle. You can select one of them as the output.

1. In the play control bar menu, select the “Subtitle” item.
   - There are some digits under the icon. The number on the right is the total number of subtitle languages provided by the disc; the one on the left is the current selection. The default value can be set in the “System Setup”.
   - If there is a word “Off” under the icon, it indicates that the subtitle is off. This value can be set in the “System Setup”.
2. Press the “SELECT” button to make the “Subtitle” item available for selection.
3. Press the ▲ or ▼ button of the remote controller to select the subtitle language, and press the “SELECT” button to confirm.
4. this function enables you to switch between subtitles by pressing the “SUBTITLE” button directly.




## Multi-angle Switch

For some DVD discs, the pictures are shot from different angles at the same time. While playing, you can view from different angles.

1.In the play control bar menu, select the “Angle” item.

2.Press the “SELECT” button to make the “Angle” item available for selection. Enter a number and press the “SELECT” button to confirm. Then the angle will be changed.

There are some digits under the icon. The number on the right is different angles of pictures provided by the disc; the one on the left is the current selection.

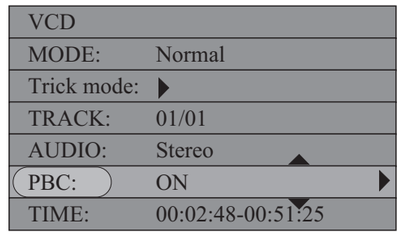
## PBC ON/OFF (Available only for VCD 2.0 or above versions)

1.In the play control bar menu, select the “PBC ON/OFF” item.

2.Select the “On” or “Off” value and press the “SELECT” button to activate or inactivate PBC function. Press the “MENU” button to activate or inactivate PBC function directly.

**Note**

- The so-called PBC function indicates the menu play mode of VCD 2.0. When the PBC is on, the system will provide a list of all tracks. You can select to play any of these tracks using the number buttons of the remote control. When the PBC is off, the system will play the disc in the normal order.
- Not all VCD discs support PBC play.




## Picture Zoom Function

In the playing status, the unit has the function to zoom in pictures. (Available for DVD, VCD and JPEG)

1.In the playing status, press the “ZOOM” button,to enlarge the picture by 150% or 200%.

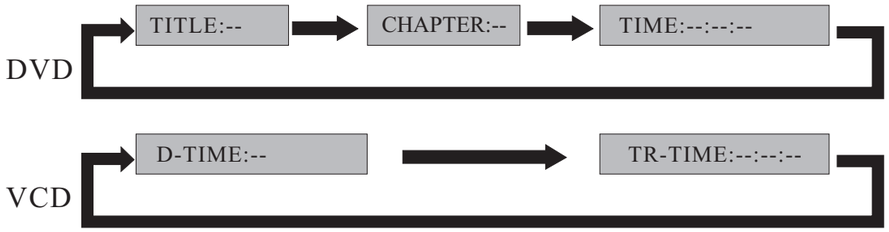
2.After the picture is enlarged, use the arrow buttons ▲, ▼, ◀ or ▶ to move the picture so that you can view different parts of the enlarged picture.

# Play Mode

## The Use of the "GOTO" Button

1. In the playing status, press the "GOTO" button to cycle through various options in the play control bar menu. With the above-mentioned operations, you can use the remote control to enter the corresponding value and skip to the corresponding location directly.

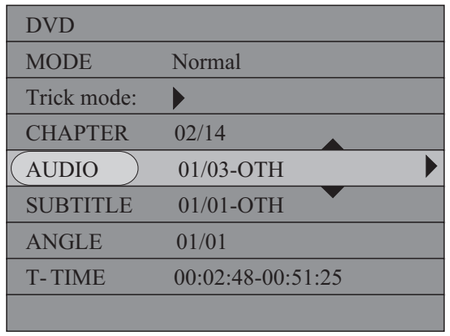
- The following is an example of DVD playing. The operation of VCD playing is similar to this case.
- For CD and MP3discs, it is no use pressing the "GOTO" button.




## Audio Selection

Some DVD discs may have more than one OSD language. You may select one of them as the output.

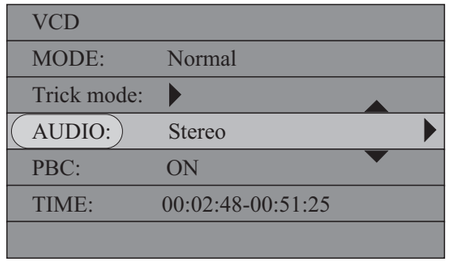
1. In the play control bar menu, select the "Audio" item. There are some digits under the icon. The number on the right is the total number of OSD languages; the one on the left is the number of the current mode.
2. Press the "SELECT" button, use the ▲ or ▼ button to select the "Audio" item, and press the "SELECT" button of the remote control to confirm.
3. This function enables you to switch between different languages by pressing the "AUDIO" button directly.




## Audio Channel Selection

This function is available for CD, VCD and Mp3 discs.

1. In the play control bar menu, press the ▼ or ▲ button to select the "Audio" item, press the "SELECT" button to confirm and enter the input mode.
2. Use the ▼ or ▲ button to select "Stereo", "Right" or "Left", and press the "SELECT" button to confirm.
3. This function enables you to switch between different channels by pressing the "AUDIO" button directly.






# Chapter Editing

## Introduction

For finalized discs, every title consists of only one chapter. There is no such function as selected chapter play or random programmed play of disc segments for such discs. The index icon of each title is determined by the system. As every title consists of only one chapter, it is inconvenient to browse the disc when you desire individualized appreciation. The chapter editing function is to solve such problem.

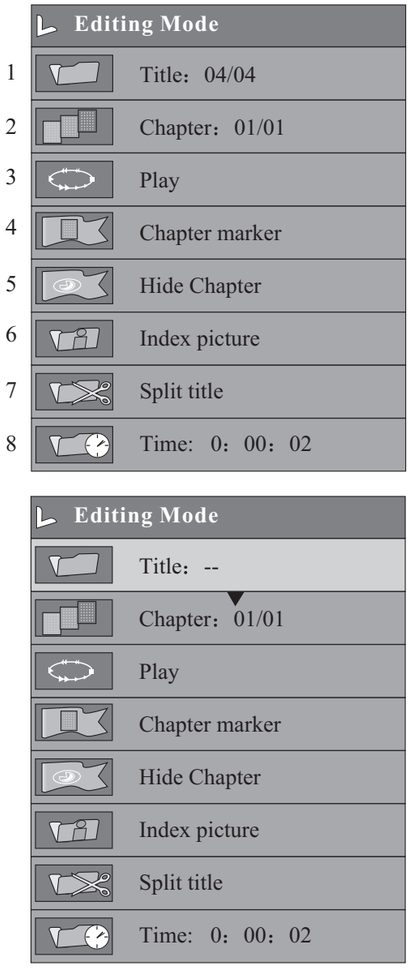
## Enter the Chapter Editing Mode

When the disc in the drive is DVD+RW and the system is in the DVD Monitoring mode, press "DVD" button to the DVD play state, select a title and press "Right" button to show the Edit Title Menu and select the item "Edit Title" to enter the Chapter Editing mode and the Chapter Editing control bar menu will appear.

## Note

The Chapter Editing function is only available for DVD+RW discs.

If the DVD+RW disc is write-protected or the current mode does not allow the entrance of Chapter Editing mode, the remedy for the former is to cancel the write protection with disc operation, and in the latter case, just exit the mode.




## Menu Description

The chapter editing control bar menu is as shown in the following chart and the meanings for each item are as follows:

1. Title:. The left number under the icon is the current title to be edited; the right is the total number of the titles in the disc.
2. Chapter. The left number is the current chapter; the right is the total number of chapters in the title.
3. Play: The function is the same as the Play Mode.
4. Chapter Mark:. Split or Combine Chapter function.
5. Hide Chapter:. Hide or Show Chapter function.
6. Index Picture: Change the index picture.
7. Split Title: Split the title in two.
8. Time: Time Selection Play.

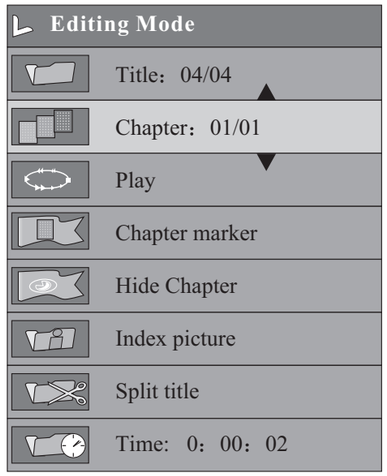
### Operation Steps

Select the title to be edited

1. Enter the Editing Mode.
2. In the Editing Mode control bar menu, use the ▼ or ▲ button to select the title.

# Chapter Editing

3.Press the “SELECT” button to make title selection option editable.
4.Enter the number of the title to be edited with number buttons, and then press the “SELECT” button, the system will play the title. At this time, various operations can be done for this title.




Split Title

1.In the Editing Mode control bar menu, use the ▼ or ▲ button to split the title, and press the “SELECT” button.
2.When playing to a certain position, press the “SELECT” button, and the system begins to split the current chapter.
The chapter is divided into two titles at this position, and the current picture will be the title picture of the second title.
When the split operation is under way, you may need to wait for some time.

Chapter Marker

1.Insert a mark: Mark the chapter in the title.
2.Delete a mark: Delete a playing chapter and combine it with the previous chapter. But the previous chapter won’t be deleted
3.Delete all marks: Delete all chapters in the title. But the first chapter cannot be deleted.

Hide/Unhide Chapter

1. In the Chapter Editing control bar menu, use the ▼ or ▲ button to move the cursor and select the “Hide Chapter” item, and then press the “SELECT” button.
If the value is Hide Chapter, the current chapter will be hidden during playing.
If the value is Unhide Chapter, the current chapter will not be hidden during playing.

Index Picture

1.In the Program Mode control bar menu, use the ▼ or ▲ button to move the cursor and select the “Index Picture” item.
2.If you find a favorite picture during playing, press the “SELECT” button and the picture will become the index picture of the title.

Play

Play, Pause, FFx2, FFx4, FFx16, FFx32, FBx2, FBx4, FBx16, FBx32, Slow 1/2, Slow 1/4, Slow 1/8, Step.

**Exit the Chapter Editing**

- Press the “STOP” button to exit this mode.

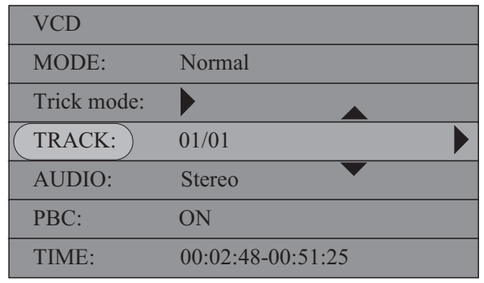
When exiting, the system will write information to the disc. So the system might not respond for some time.



# Play Mode

**Selection Play**

Track Selection

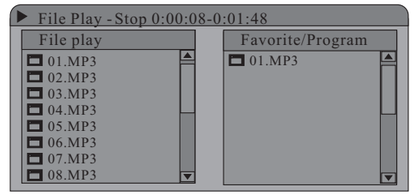



Available for VCD, SVCD，CD, etc.
1. In the play control bar menu, select the Track item.
2. Press the “SELECT” button to enter the input mode.
3. Press the number buttons to enter the track number to be selected.
4. Press the “SELECT” button to start playing.

- While the PBC is on, the track cannot be selected for SVCD and VCD discs.
- If the “SELECT” button is not pressed for a few seconds, the system will automatically play the selected track.

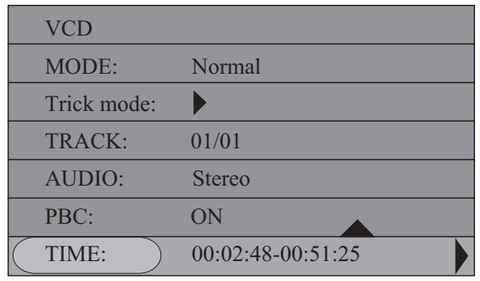
Track Selection Play for Audio or MPEG4 Discs

For audio or video discs like Mp3 or MPEG4, you can select a track from the Disc Content List and play it.
1.Press the ◀ or ▶ button to move the cursor to the Disc Content List box.
2.Press the ▲ or ▼ button to select a track, press the “SELECT” button, and the system will start playing the selected track.




Time Selection

1.In the play control bar menu, select the “Track Time” item.
The time shown under the icon is the time played of the current chapter (for DVD discs) or the current track (non-DVD discs).
The Time Selection function is not available for some discs. In this case, this icon cannot be selected. Press the “SELECT” button to enter the Edit Mode. Press the number buttons to enter the time and press the “SELECT” button to confirm. If the input time is valid (less than the total length of the current chapter or track), the system will start playing from the input time.




- You can only select a time point in the current chapter or disc for playing.
- If the input time exceeds the total length of the current chapter or disc, the system will remain in its previous play mode.

# Play Mode

Pause/Step Play

1. While playing a supported disc, press the “PAUSE/STEP” button, and the system will suspend playing.
2. Press the “PAUSE/STEP” button again, and the picture will move one frame forward.
3. Press the “PLAY” button, and the system will restore normal playing.

While playing CD-DA , press the “PAUSE/STEP” button again, and the system will restore normal playing.

Volume Control

1. Press the “MUTE” button, and the system sound is mute.
2. Press the “VOL +” button, and the sound volume will increase.
3. Press the “VOL -” button, and the sound volume will decrease.

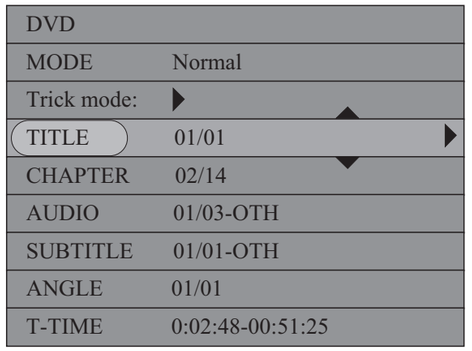
Note:
Some of the operations stated in this section can be done with function buttons of the remote controller or the menu, their effect is the same.

## Selection Play Mode

Title Selection

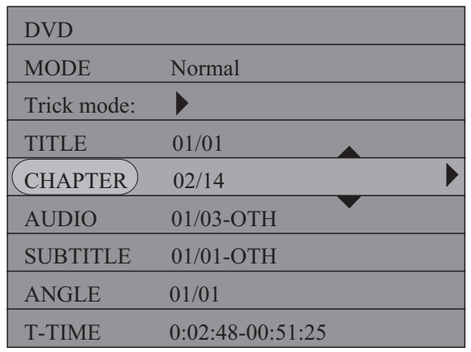
Only available for DVD discs

1. Enter the play control bar menu.
2. Press the “▲ or ▼ button to select the “Title” item, and press the “SELECT” button to enter the input mode.
3. Press the number buttons to enter the Title Number to be selected.
4. Press the “SELECT” button to play the selected title.




Chapter Selection

1. Only available for DVD discs.
In the play control bar menu, select the “Chapter” item.
2. Press the “SELECT” button to enter the input mode.
3. Press the number buttons to enter the Chapter number to be selected.
4. Press the “SELECT” button to play the selected chapter.



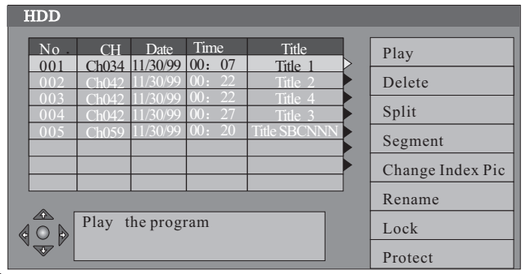



# HDD Editing

## HDD Edit

Five operations are possible. All can be accessed from the Title list menu. Press Right ARROW to get the Popup menu. Then use the Up or Down ARROW to highlight your option and press Select to continue. Your options are: play, Delete, Split, Segment, Change Index Pic and Rename. During HDD Edit operation, recording to HDD is on going.

When you Edit a title, its corresponding representation on the HDD title list will bear the Edit icon to remind You.



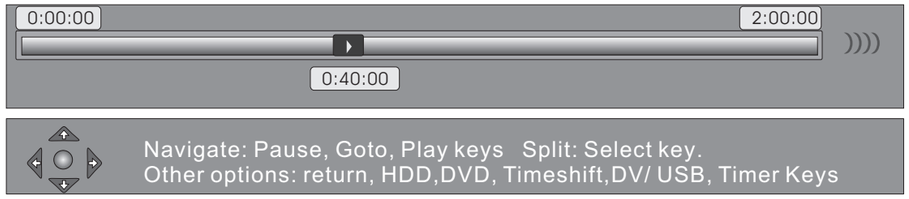

### Delete

If a title is not Protected or Locked, you can select this option to delete it. You should take extra care confirm the operation (as it is irreversible).

### Split

This option brings up the Split screen. You can navigate to the program (similar to Playback screen) and mark a location at which the program will be cut into 2 separate programs And registered on the HDD title list. See Figure.

*Title Split*




You can use all navigation features, (press Info to bring up the hot keys on the bottom of the screen, pressing Info again will remove the help information).

**Note:** Split is irreversible. Once the program has been split, the 2 titles can not be concatenated back.

**Note:** Split screen can only be accessed if the title you want to split is not Protected or Locked.
-Return Key will return back to HDD title list without splitting
-If the splitting point is not chosen and the title playback comes to an end, then the system will switch to Pause
-When the operation is finished, the system will return back to title list and the first part of the program will be highlighted

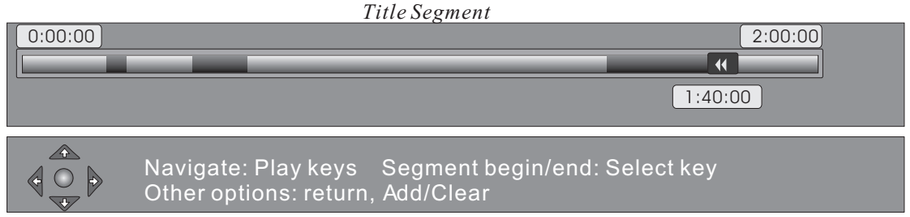
Before splitting, you will be asked if you want to proceed with splitting. (The default answer is No, in order to minimize error risk).
**Note:** Accuracy of Split location is within 0.5 second

Segment

This option brings up the Segment screen. You can navigate the program (similar to Playback screen) and mark a location for the beginning of a segment followed by a location for the end of a segment. The segments will not be visible if the title is played back (HDD-> Play). Also the segments will not be copied to DVD if the segmented title is selected for Dubbing. If you re-enter the segment screen for the same title, you can see the identified segments. See Figure.

# HDD Editing

*Title Segment*




When you enter Segment screen, the title will automatically starts playing. You can use the playback navigation keys to move to anywhere in the title and apply a segment.
The following remote control keys are supported:

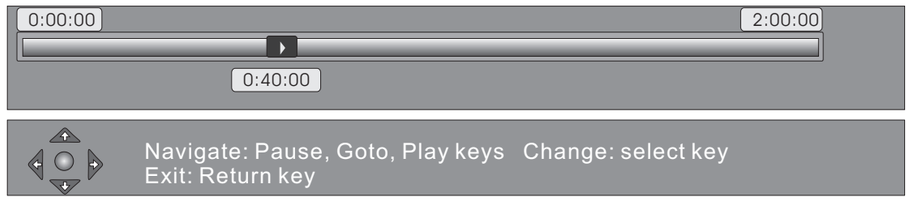
| Keys | Function | Note |
|---|---|---|
| Select | Mark the In/Out point(s). | Define your segments |
| Display | Toggles between: progress bar -> add helper text (and dynamic compass) -> add title info (on the top) -> no overlay | |
| Return | Back to HDD title list | ***If all segments are chosen correctly (i.e. there is a corresponding Segment End for each Segment begin, the result should be saved before going to HDD title list. Or it will not save the result.*** |
| Clear | Clear all IN/OUT point | |
| Play | Navigation in the title | All playback and trick mode keys (FF, FR, etc) |
| Stop | Back to title list | Do not save the result |
| Functions | Back to HDD title list | Exit without saving the segment information |

**Note**: Segment screen can only be accessed if the title you want to split is not Protected or Locked.
**Note:** Accuracy of segment boundaries is within 0.5 second

## Change Index Picture

This option brings up the Change Index Picture screen. You can navigate the program (similar to Playback screen) and when the desired picture is display on the screen press **Select** to change the Index picture.

***Change Index Picture***




**Note:** This operation is available only if the title is not protected or locked

## Rename

This option brings up the on-screen keyboard. You can type in the title name for the title. Use the **ARROWs** to highlight the desired key, and use **SELECT** to select.



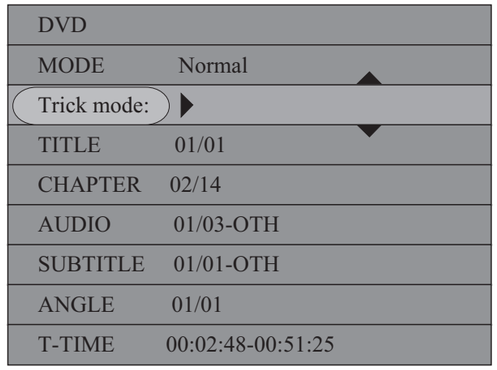
# Play Mode

### Play Process Control

In this section, we will introduce how to control the play process.

Menu Operation

Most of the play process control operations can be done through the menu. The operations are as follows.
1. Enter the play control bar menu, use the arrow buttons to select the status-play item and press the "SELECT" button.




2. Use the arrow buttons to select corresponding values according to your need, and press the "SELECT" button. The Process Control Item has the following values. Each value corresponds with an operation. Some discs might not contain all the values as follows.
Play, FFx2~FFx32 (The numbers indicate the speed of fast forward play),
Stop, FBx2~FBx32 (The numbers indicate the speed of fast backward play),
Pre-stop, Slow 1/2~ Slow 1/8(The fractions indicate the speed of slow play),
Pause,

Forward Play

1. Press the ⏭ button, the system will go forward to the next chapter (DVD) or the next track (VCD, etc.) and start playing.
For DVD discs, only the forward operation within a title is allowed.
2. Press the ⏩ button, and the system will play fast forward. With each press, the forward play speed will increase.
For MUSIC discs, such operation is invalid.

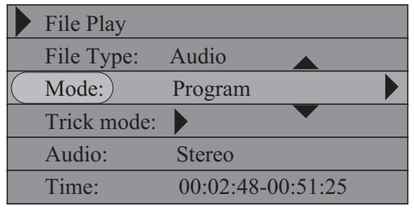
Back Play

1. Press the ⏮ button of the remote control, the system will go back to the previous chapter (DVD) or the previous track (VCD, etc.) and start playing.
2. Press the ⏪ button, and the system will play fast backward. With each press, the backward play speed will reduce gradually.

# Play Mode

Program Play

This function enables the system to play designated title, chapter or track according to the instruction you set.




1. Select the Play Mode Control value as “Program”, and press the “SELECT” button.

- Press the ◀ or ▶ button to move the cursor between “File” and “Favorite/Program”.
- Press the ▲ or ▼ button to move the cursor up and down within a certain list box.

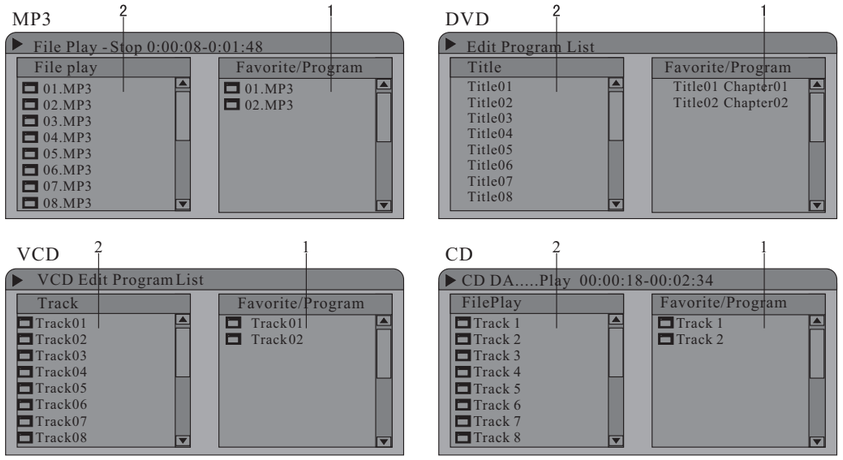
1) In the Program Play List Box, you can add your favorite content.

2) This is the Disc Content List Box.

2. Press arrow buttons to move the cursor in the Disc Content List Box to your favorite item.

3. Press the “ADD/CLEAR” button and the item will appear in the Program List Box.

If the item you select in the Disc Content List Box contains sub items, such as a title of a DVD disc, press the “SELECT” button and the sub item list will pop up in the Content List Box. If you select the first item in the list, press the “SELECT” button and the Content List Box will restore its original content. For detailed operations, see the following charts




4. Press the arrow buttons to select an item in the Program List Box, and press the “ADD/CLEAR” button to delete the item.

1).After adding the content you desired to the Program List Box, move the cursor to the Program List Box, and press the “SELECT” or “PLAY” button. The system then will play the content in the Program List Box in Normal Play mode.

2).Pressing the “PROG” button directly is another way to conduct program play operation.

Random Play

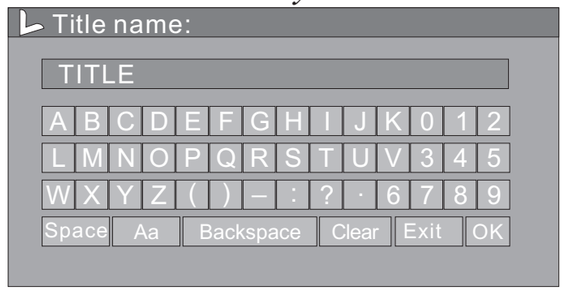
1. Set the value of the menu control item as “Random”. The system will start Random Play.

2. In this mode, the system will randomly play the chapters or tracks of the disc.



# HDD Editing

*On-screen keyboard*




Note: This operation is allowed only if the title is not protected or locked

**Lock**

Once you have highlighted the program on the HDD title list, bring up the Popup menu by pressing the Right Arrow. Make sure Lock is highlighted (use Up and Down arrows to navigate if needed) and press Select. When you lock a program, the parental password selected in the Setup menu will be applied*(default value is 3308)*. The user will be asked to Unlock the program before Play or any Edit or Dubbing operation. In order to Unlock, once you have highlighted the program on the HDD title list, bring up the Popup menu by pressing the Right Arrow. Make sure Unlock is highlighted (use Up and Down arrows to navigate if needed) and press Select. You will be regusted to enter the password. A Locked title will have a Lock icon next to its index picture on HDD title list.

**Protect**

Playback only, No Editing

Once you have highlighted the program on the HDD title list, bring up the Popup menu by pressing the Right Arrow. Make sure Protect is highlighted (use Up and Down arrows to navigate if needed) and press Select. When you Protect a program, the user can Play the title or Dub it to DVD; but can not do any Edit operation (split, segment, change index picture, delete). In order to Unprotect, once you have highlighted the program on the HDD title list, bring up the Popup menu by pressing the Right Arrow. Make sure Unprotect is highlighted (use Up and Down arrows to navigate if needed) and press Select. A Protected title will have a Safe Box icon next to its index picture on HDD title list.

# Disc Operation

## Introduction

The Disc Operation means operations done to recordable discs in the drive, including browsing disc information, finalizing a disc, removing disc content, deleting the last title, setting compatibility and write protection, etc.

## Enter the Disc Operation Mode

When the system detects DVD+R or DVD+RW disc in the drive, press the "DISC OPER" button to enter the mode.

## Menu Description

The control bar menu under this mode is as shown in the chart.

DVD+RW:

The meanings for the icons are as follows.

1. Play: Play the content of the current disc.
2. Erase Optical Disc: Once this operation is done, all content in the disc will be removed completely. The disc index will appear as blank on the screen.
3. Rename Disc: Rename the disc (default name: MY DVD).
4. Record a new title: Add a new title to record.
5. Overwrite Disc: An operation on a recorded DVD+RW disc to overwrite its previous content.
6. Lock Disc:. This function prevents the deletion of recorded content.

## Operation Steps

DVD+RW:

Erase Optical Disc

This operation is effective for DVD+RW discs. In the Disc Operation control bar menu, use the ▼ or ▲ button to select the "Erase Optical Disc" option, press the "SELECT" button and a warning message pops up, "This operation will erase all data on the disc. Are you sure you want to continue". Press the ◀ button to select "Yes", and then press the "SELECT" button to confirm. Then the system will start erasing the disc.

The Erase Disc operation may take some time. During the operation, do not conduct any other operation, including standby; once the operation starts, it cannot be cancelled midway. Never switch off the power during the operation; otherwise the disc may be damaged.

Lock Disc

This operation will cancel the write protection of a locked disc. This function is available only for DVD+RW discs.

1. In the Disc Operation control bar menu, use the ▼ or ▲ button to select the "Lock Disc" item, and then press the "SELECT" button.

To judge if a disc is write-protected, try the "Browse Disc Information" operation. A write-protected disc cannot be recorded, erased or edited unless the write protection is canceled.



# Play Mode

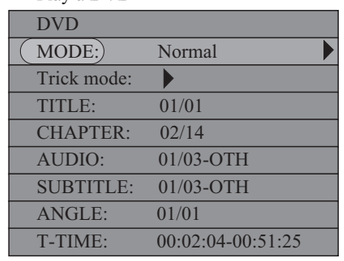
## Play Mode Control

There are four playing modes for the unit, including Normal Play, Repeat Play, Program Play and Random Play. The operations are as follows.

Normal Play

1. Enter the control bar menu.
2. Press the ▼, ▲ and "SELECT" buttons to select the first item in the control bar, Play Mode.

Play a DVD




3. Press the ▼or ▲ button to select the Normal Play value, and then press the "SELECT" button to enter the Normal Play mode.
4. Pressing the "PLAY" button directly is another way preform Normal Play.

Repeat Play

There are various Repeat Play modes, including Repeat Title (DVD only), Repeat Chapter (DVD only), Repeat Disc (DVD/SVCD/VCD), A-B Repeat, etc.

1. In the play control bar menu, press the ▼, ▲ and "SELECT" buttons to select the first item, Play Mode Control.
2. Use ▼or ▲button to select a proper value, press the "SELECT" button and the system will play with the corresponding Repeat Play mode.
3. Pressing the "REPEAT" button directly is another way to repeat play operation.
4. If the value selected is "A-B Repeat", press the "SELECT" button and the system will indicate that Point A is set, please set the next point. Press the "SELECT" button again to set the next point, i.e. Point B. After that, the system will perform a section repeat play, that is, repeat from A to B.

The values of Play Mode Control Item are as follows. The values may vary for different discs.

1. Normal Play.
2. A-B Repeat
3. Chapter Repeat
4. Title Repeat
5. Disc Repeat
6. Track Repeat
7. DIR Repeat
8. Program Repeat
9. Random Repeat

# Play Mode

Enter the Title before Playing

1. This function is only available with DVD discs.
   Press the “TITLE” button, and the title directories will appear on the screen.
2. Press the arrow buttons to move the cursor to a desired title. For some discs, you can input numbers to select a title directly. For example, to select Title 2, press 2; to select Title 20, press 2→0.
3. Press the “SELECT” button to play the selected title.

**Note:**

Title directories of different DVD discs may vary to some extent.
Some DVD discs might not have any title directory. For such discs, it is no use pressing the “SELECT” button.

Enter Menu before Playing

1. Press the “MENU” button.
   The Menu Picture of the DVD disc will be displayed on the TV screen.
   For SVCD and VCD discs, this button realizes PBC ON/OFF function.
   This function realizes only in the Pre-stop status for some discs.
2. For DVD discs, press the arrow buttons to select a chapter; for SVCD and VCD 2.0 discs, press the number buttons to select a track.
   The “SELECT” button must be pressed before playing for some discs.
3. Press the “RETURN” button during playing.

For SVCD and VCD 2.0 discs, system will return to menu while PBC is on; the function will not be available while PBC is off.

End Play

1.Press the “STOP” button;
   The system will change to the Pre-stop status.
   In the Pre-stop status, the unit will automatically record the stopping time. Now if you press the “PLAY” or “RETURN” button, the unit will resume playing from the recorded stopping time. (For MUSIC discs, the playing will start from the beginning of the track at pre-stop time.) Press the “STOP” button again, the system will change to Stop status and the memory will be cleared then.
2.Press the “OPEN/CLOSE” button to open the disc tray.
3.Take out the disc.
4.Press the “OPEN/CLOSE” button to close the disc tray.
5.Press the “STANDBY/ON” button to standby the unit.

**Caution**

If the disc is wrongly placed or the disc is seriously damaged the OSD will display “NO DISC. ”



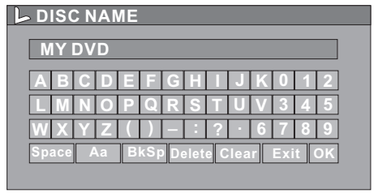
# Disc Operation

Rename Disc

In the Disc Operation control bar menu, use the ▼ or ▲ button to select the “Rename Disc” item, and press the “SELECT” button to pop up a dialog box; in the given keyboard layout, use arrow buttons and the “SELECT” button to enter desired letters.

**Space:** add a blank position, **Caps**: capital change , **BkSp:** delete a character forward , **Delete:** delete a character backward, **Clear:** delete all characters, **Exit:** exit operation, OK: confirm operation.

DVD+RW:




Record a New Title

In the Disc Operation control bar menu, use the ▼ or ▲ button to select the “Record a New Title” item , press the “SELECT” button , and then the system will change to TV status. Press the “SOURCE” button to switch to other input sources. Press the “REC/OTR” button to enter a new title. Other operations are similar to those in Manual Recording.

DVD+RW:

Overwrite Disc

In the Disc Operation control bar menu, use the ▼ or ▲ button to select the “Overwrite Entire Disc” item, press the “SELECT” button, and then the system will change to TV status. Press the “SOURCE” button to switch to other input sources, and then press the “REC/OTR” button to start recording and overwriting all other information in the disc. Other operations are similar to those in Manual Recording.

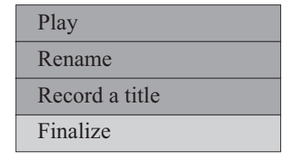
DVD+RW:

Finalize Disc

This function is only available for DVD+R discs.

In the Disc Operation control bar menu, use the ▼ or ▲ button to select the “Finalize” item , press the “SELECT” button to pop up a dialog box, select “Yes” and the compatibility process will be under way.

DVD+R:




- You can also select the “FINALIZE” option directly to start the compatibility process.
- This operation enables the recorded DVD+R discs to be played in other DVD players. But it is impossible to add new content to such discs.
- Do not switch off the power during the finalizing process, otherwise the discs might be damaged.
- This function enables the DVD+R disc to be played in other DVD players. Once the disc is finalized, no further writing or change is allowed. (Such operation applies only to DVD+R discs)

**Exit:**

Press the “◀” button to exit this mode.

# Title Editing

## Introduction

Different recorded programs make different titles. The titles may be edited

## Enter the Title Editing Mode

In the Title Display mode, press the ▶ button to pop up the following dialog box.

1. Title Name.
2. Recording Date.
3. Starting Time of the Recording.
4. The Length of the Recording.
5. Recording Quality.

| | |
|---|---|
| Play TITLE | 1 |
| Edit TITLE | 2 |
| Rename TITLE | 3 |
| Erase TITLE | 4 |
| Overwrite TITLE | 5 |
| Overwrite TITLE | 6 |
| Append TITLE | 7 |

1. Play Title. Play the current title.
2. Edit Title. Enter the Title Editing mode, similar to the Chapter Editing mode.
3. Rename Title. The operation is the same as that for "Rename Disc".
4. Erase Title. Delete the current title.
5. Overwrite Title. Record a new title and overwrite the current one.
6. Overwrite Disc. Operation same as disc operation of the overwrite Disc Operation.
7. Append Title. This function is only available when editing the last title in the disc. Add a new title. The operation is the same as that in "Record a New Title"

# Play Mode

## Enter the Play Mode

Press the remote control DVD button switch to DVD playback mode. In the Play Mode, the unit serves as a high quality DVD player. To enter the Play Mode, do as follows.

- Connect the TV and the unit properly (See "System Connection" for relevant information). Turn on the TV and switch to AV input status.
- Switch on the power of the unit, and press the "STANDBY/ON" button to start the unit. Insert a disc, and the system will enter the Play Mode automatically.
- If the unit is working with other inputs, press the "PLAY" button to enter the Play Mode.

**Note:**

- During Writing or Erasing operation, it is no use pressing the "PLAY" button.
- If there is no disc in the drive or an unsupported or seriously damaged disc is inserted, it is no use pressing the "PLAY" button.

## Menu Description

In the Play Mode, the system control is done through the menu operations or function keys. Enter the Play Mode, and press the "DISPLAY" button to show or hide the control bar menu.
In the Stop status, it is no use pressing the "DISPLAY" button.



# Play Mode

The following charts are control bar menus for DVD, VCD, CD and MPEG 4 respectively. Please note that the menu may vary to some extent for different discs.

Play a DVD

| | | | |
|---|---|---|---|
| 1 | DVD | | |
| 2 | MODE: | Normal ▶ | Normal |
| 3 | Trick mode: ▶ | | A-B Repeat |
| 4 | TITLE: | 01/01 | Chapter Repeat |
| 5 | CHAPTER: | 02/14 | Title Repeat |
| 6 | AUDIO: | 01/03-OTH | Program |
| 7 | SUBTITLE: | 01/03-OTH | |
| 8 | ANGLE: | 01/01 | |
| 9 | T-TIME: | 00:02:04-00:51:25 | |

Play a VCD

| | | | |
|---|---|---|---|
| 1 | VCD | | |
| 2 | MODE: | Normal ▶ | Normal |
| 3 | Trick mode : ▶ | ▼ | A-B Repeat |
| 10 | Track: | 01/01 | Track Repeat |
| 11 | Audio: | Stereo | Disc Repeat |
| 12 | PBC: | PBC ON | Program |
| 9 | TIME: | 00:02:04-00:51:25 | Random |

Play a Mp3 or MPEG 4

| | | | |
|---|---|---|---|
| 1 | ▶ File play | | |
| 13 | File Type: | AUDIO ▲ | Normal |
| 3 | MODE: | Normal ▶ | Repeat Track |
| 3 | Trick mode: ▶ | ▼ | Repeat DIR |
| 11 | AUDIO: | Stereo | Disc Repeat |
| 9 | TIME: | 00:02:48-00:51:25 | Program |
| 14 | LANGU | Language 1 | Random |
| | | | Intro Play |

Play a CD

| | | | |
|---|---|---|---|
| 1 | ▶ CDDA PLAY | | |
| 13 | File Type: | AUDIO ▲ | Normal |
| 3 | MODE: | Normal play ▶ | A-B Track |
| 3 | Trick mode: ▶ | ▼ | Track Repeat |
| 11 | AUDIO: | Stereo | Program |
| 9 | TIME: | 00:02:48-00:51:25 | |

The meanings for the icons are as follows.

1. This icon shows the disc type.
2. **MODE.** Options include Normal Play, A-B Repeat , Chapter Repeat , Title Repeat , Disc Repeat, Program Play, etc.
3. **TRICK.** Options include Play, Stop, Pre-stop, Pause, FF/FB, Slow, etc.
4. **TITLE.** The DVD title being played and the total number of titles.
5. **CHAPTER.** The chapter of the DVD title being played and the total number of chapters.
6. **AUDIO.** Select the DVD Audio.
7. **SUBTITLE**. Select the DVD subtitle.
8. **ANGLE.** Select the DVD shooting angle.
9. **T-TIME.** Displays the time played and left.
10. **TRACK.** Track being played of the VCD/CD and the total number of tracks.
11. **AUDIO.** Channel selection when playing VCD, CD and Mp3.
12. **PBC** ON/OFF. Play menu control. This function is available only for 2.0 and above versions.
13. **File** Type:Such as Audio,PIC(picture),Video.
14. **LANGU:** only for MPEG 4 play, select the language.

## Operation

Direct Play

1. Press the "OPEN/CLOSE" button to open the disc tray.
2. Insert the available disc.
3. Do not put the disc upside-down. The smooth side should face downward, while the printed side should face upward.

Press the "OPEN/CLOSE" button to close the disc tray. The system will start playing.